D-E990/EJ915

SERVICE MANUAL

Ver 1.1 2000.02



Photo: D-E990

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Chinese Model

Tourist Model

Model Name Using Similar Mechanism	NEW
CD Mechanism Type	US, Canadian, AEP, UK : CDM-3022EBG E, Australian, Chinese, Tourist : CDM-3022EBA
Optical Pick-up Name	US, Canadian, AEP, UK : DAX-22EG E, Australian, Chinese, Tourist : DAX-22E

SPECIFICATIONS

System

Compact disc digital audio system

Laser diode properties

Material: GaAlAs Wavelength: $\lambda=780$ nm Emission duration: Continuous Laser output: Less than $44.6~\mu W$ (This output is the value measured at a distance of 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)

D-A conversion

1-bit quartz time-axis control

Frequency response

 $20 - 20,000 \text{ Hz}_{-2}^{+1} \text{ dB}$ (measured by EIAJ CP-

Output (at 4.5 V input level)

Line output (stereo minijack)
Output level 0.7 V rms at 47 kilohms
Recommended load impedance over 10 kilohms

Headphones (stereo minijack)

Approx. 5 mW + Approx. 5 mW at 16 ohms (Approx. 0.15 mW + Approx. 0.15 mW at 16 ohms)*

*For the customers in France

Optical digital output (optical output connector)
Output level: -21 - -15 dBm
Wavelength: 630 - 690 nm at peak level

Power requirements

For the area code of the model you purchased, check the upper left side of the bar code on the package.

- Two Sony NH-14WM rechargeable batteries: 2.4 V DC
- Two LR6 (size AA) batteries: 3 V DC

AC power adaptor (DC IN 4.5 V jack):
 US/Canadian model: 120 V, 60 Hz
 AEP/E13 model: 220 - 230 V, 50/60 Hz
 UK model: 230 - 240 V, 50 Hz
 Australian model: 240 V, 50 Hz
 Tourist/E33 model: 100 - 240 V, 50/60 Hz
 Hong Kong model: 220 V, 50/60 Hz
 Korean model: 220 V, 60 Hz
 Chinese model: 220 V, 50 Hz

 Sony DCC-E245 car battery cord for use on car battery: 4.5 V DC

Battery life* (approx hours)

(When you use the CD player on a flat and stable surface.)

Playing time varies depending on how the CD player is used.

23 (US/Canadian/AEP/UK model)
25 (E/Australian/Chinese/
Tourist model)
37 (US/Canadian/AEP/UK model)
40 (E/Australian/Chinese/
Tourist model)
57 (US/Canadian/AEP/UK model)
62 (E/Australian/Chinese/

Tourist model)

- * Measured value by the standard of EIAJ (Electronic Industries Association of Japan).
- ** Charging time varies depending on how the rechargeable battery is used.

Operating temperature

5°C - 35°C (41°F - 95°F)

Dimensions (w/h/d) (excluding projecting parts and controls)

Approx. $127.2 \times 19 \times 130.1 \text{ mm}$ (5 $\frac{1}{8} \times \frac{3}{4} \times 5 \frac{1}{8} \text{ in.}$)

Mass (excluding rechargeable batteries)

Approx. 167.5 g (6.0 oz)

Supplied accessories

AC power adaptor (1)

Headphones/earphones with remote control (1)

Rechargeable batteries (2) Battery carrying case (2) Carrying case (1) Battery case (1) AC plug adaptor (1)*

* Supplied with Tourist and E33 models

Design and specifications are subject to change without notice.

Abbreviation

E13: 220 - 230 V AC area in E model E33: 100 - 240 V AC area in E model

PORTABLE CD PLAYER



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This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.



CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

On AC power adaptor

 Use only the AC power adaptor supplied or recommended in "Accessories (supplied/ optional)." Do not use any other AC power adaptor. It may cause a malfunction.

Polarity of the plug



- When disconnecting the AC power adaptor from the AC outlet, grasp the adaptor itself. Do not pull it by the cord.
- Do not touch the AC power adaptor with wet hands.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

BEFORE REPLACING THE OPTICAL PICK-UP BLOCK

Please be sure to check thoroughly the parameters as par the "Optical Pick-Up Block Checking Procedures" (Part No.: 9-960-027-11) issued separately before replacing the optical pick-up block. Note and specifications required to check are given below.

• FOK output: IC601 ③ pin
When checking FOK, remove the lead wire to disc motor.

• RF signal P-to-P value: 0.35 to 0.55 Vp-p

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

During normal operation of the equipment, emission of the laser diode is prohibited unless the upper lid is closed while turning ON the S801. (push switch type)

The following checking method for the laser diode is operable.

Method: Emission of the laser diode is visually checked.

- 1. Open the upper lid.
- 2. With a disc not set, turn on the S801 with a screwdriver having a thin tip as shown in Fig.1.
- 3. Press the ▶II button.
- 4. Observing the objective lens, check that the laser diode emits light.

When the laser diode does not emit light, automatic power control circuit or optical pickup is faulty.

In this operation, the objective lens will move up and down 5 times along with inward motion for the focus search.

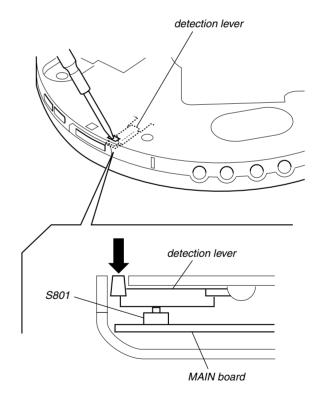


Fig. 1 Method to push the \$801

SECTION 2 GENERAL

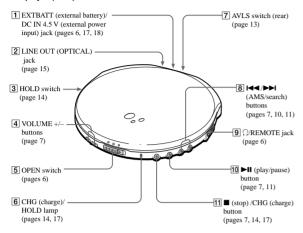
This section is extracted from instruction manual.

Getting started

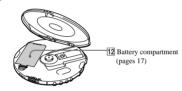
Locating the Controls

For details, see pages in parentheses.

CD player (front)



CD player (inside)

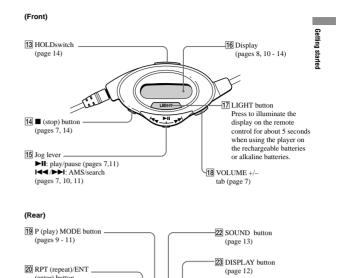


4

Remote control

(pages 9 - 11)

You can turn and change the angle of the clip.



Note
Use only the supplied remote control. You

Use only the supplied remote control. You cannot operate this CD player with the remote control supplied with other CD players.

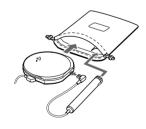
5

Using the carrying case

You can carry your player and its battery case together using the supplied carrying case.

case.

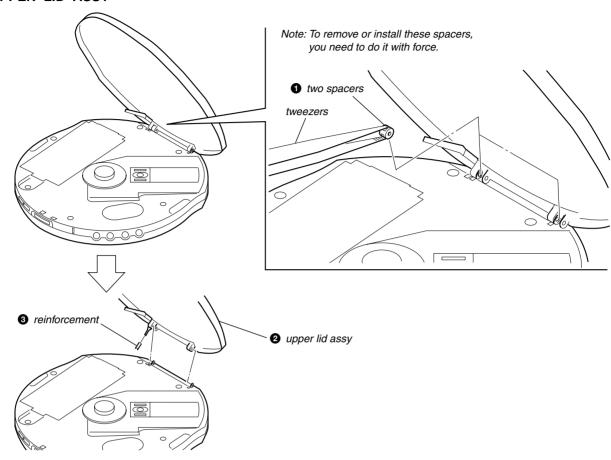
Insert them into the proper places in the case as illustrated below



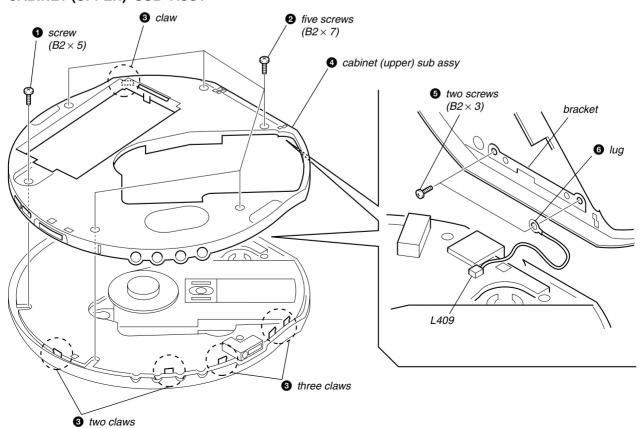
SECTION 3 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

UPPER LID ASSY

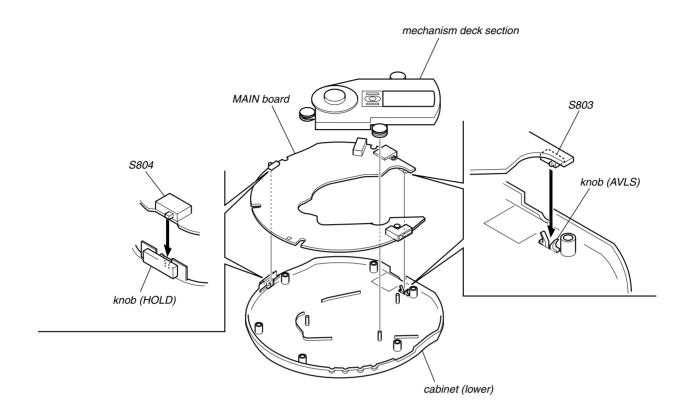


CABINET (UPPER) SUB ASSY



INSTALLATION OF MAIN BOARD

When installing MAIN board, adjust the S803, 804 and knobs (AVLS, HOLD)



SECTION 4 ELECTRICAL CHECKING

The CD section adjustments are done automatically in this set.

Precautions for Check

- 1. Perform check in the order given.
- Use YEDS-18 disc (Part No.: 3-702-101-01) unless otherwise indicated.
- 3. Power supply voltage requirement: DC4.5 V in DC IN jack. (J401)

um

VOLUME button: Minimum AVLS switch : NORM HOLD switch : OFF

Checking Location:

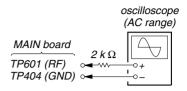
- MAIN board (Side A) -

Focus bias Check

Condition:

• Hold the set in horizontal state.

Connection:



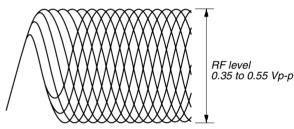
Procedure:

- Connect the oscilloscope to the test points TP601 (RF) and TP404 (GND) on the MAIN board.
- 2. Set a disc. (YEDS-18)
- 3. Press the **▶II** button.
- Check the oscilloscope waveform is as shown below.
 A good eye pattern means that the diamond shape (◊) in the center of the waveform can be clearly distinguished.

RF Signal reference Waveform (Eye Pattern)

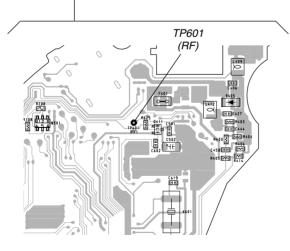
VOLT/DIV: 100 mV (With the 10:1 probe in use)

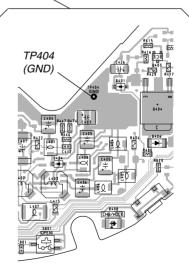
TIME/DIV: 500 ns

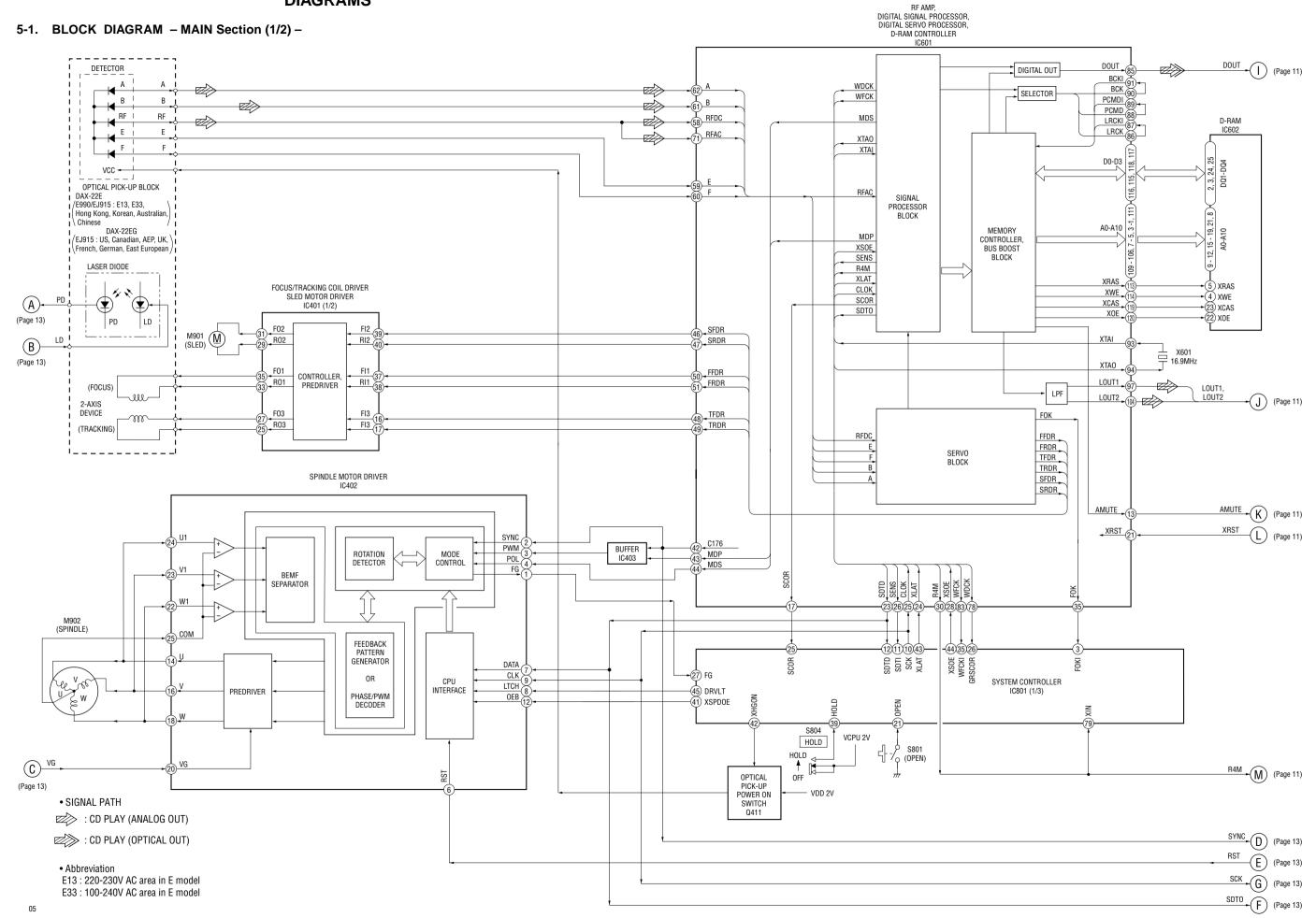


To watch the eye pattern, set the oscilloscope to AC range and increase the vertical sensitivity of the oscilloscope for easy watching.

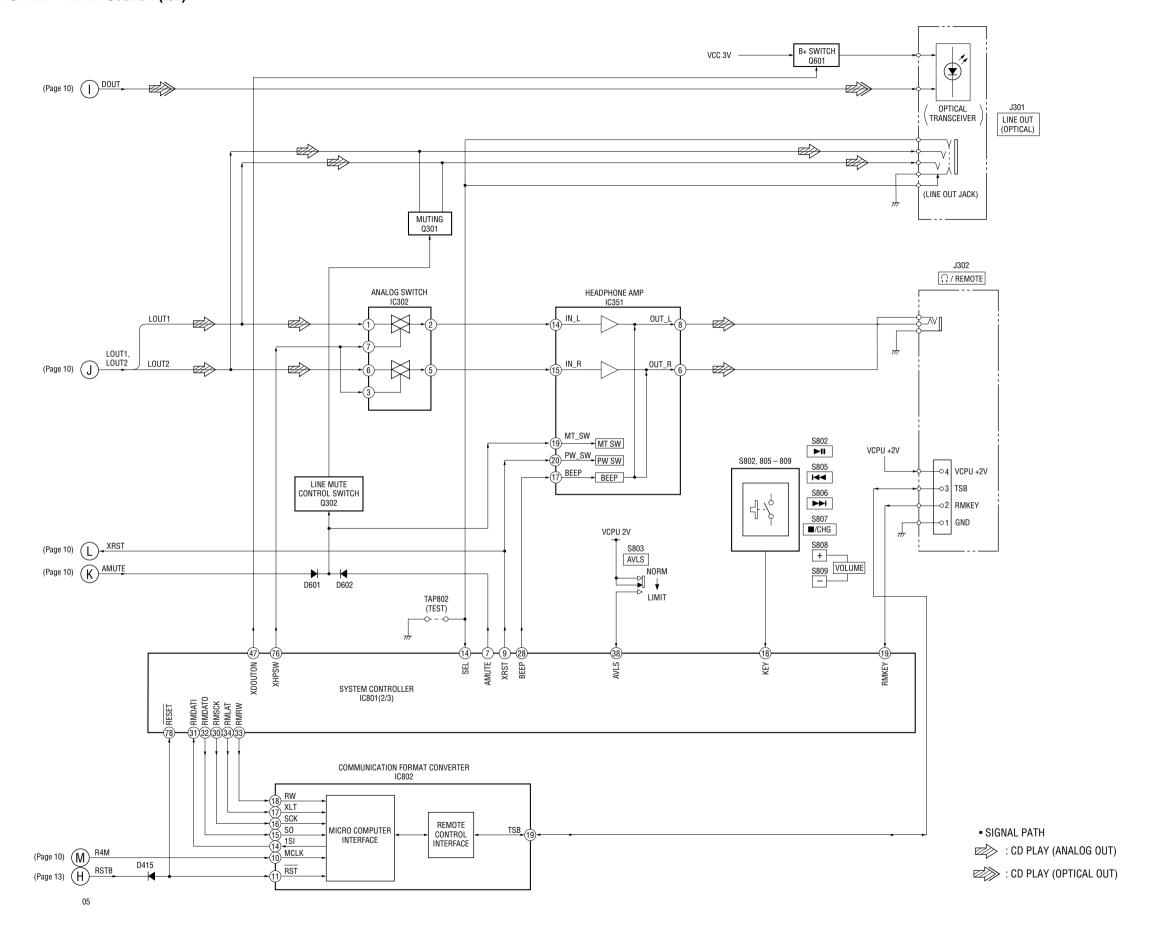
5. Stop revolving of the disc motor by pressing the ■ button.



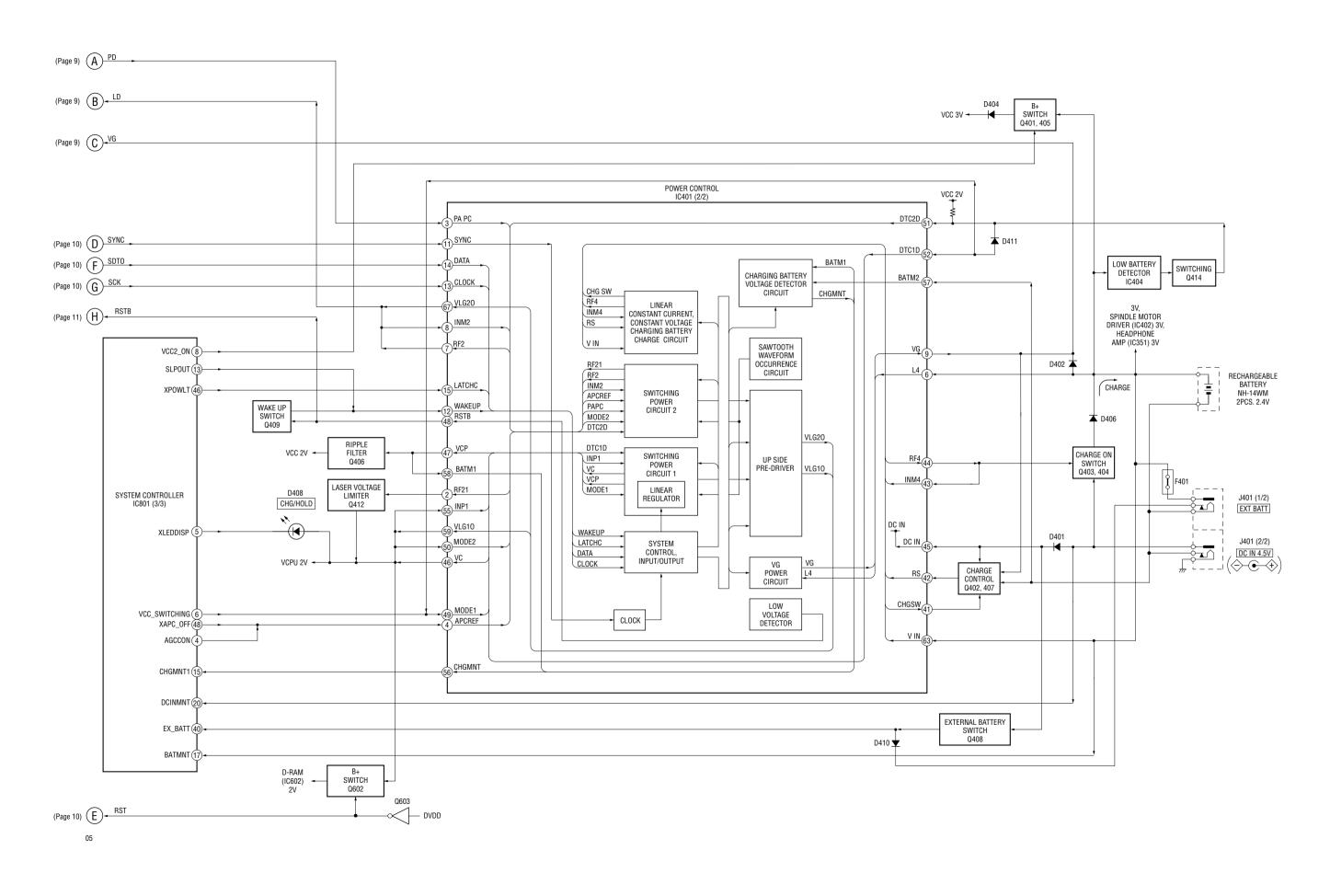


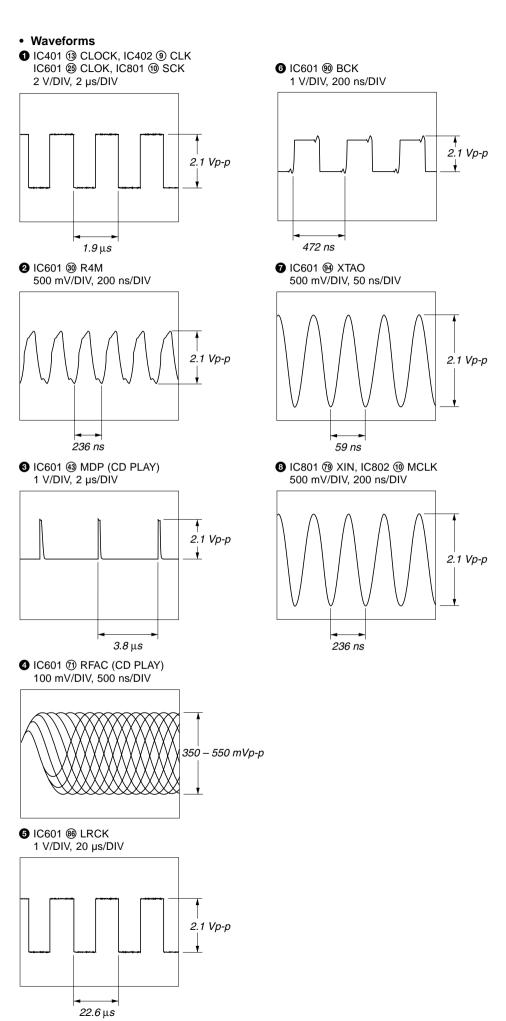


5-2. BLOCK DIAGRAM - MAIN Section (2/2) -



5-3. BLOCK DIAGRAM - POWER SUPPLY Section -





D-E990/EJ915

Semiconductor

Ref. No. Location

J-6

K-16

1-7

B-5

I-8 J-7

J-17 H-19

I-15 J-16 J-18 I-14

H-18 D-20 D-20

C-20

G-13 J-16

J-17 J-17 I-14

D-19 E-20

F-19

H-20

C-2

D-20 H-14

1-14 H-8 H-8 H-14

I-5 I-14 H-18 J-16 C-4 J-14 H-14 F-20 J-18

J-18

Location

D401 D402 D403

D404 D405 D406 D408 D409 D410 D411 D412 D413 D414

D415 D601 D602

IC302 IC351 IC401 IC402 IC403 IC404

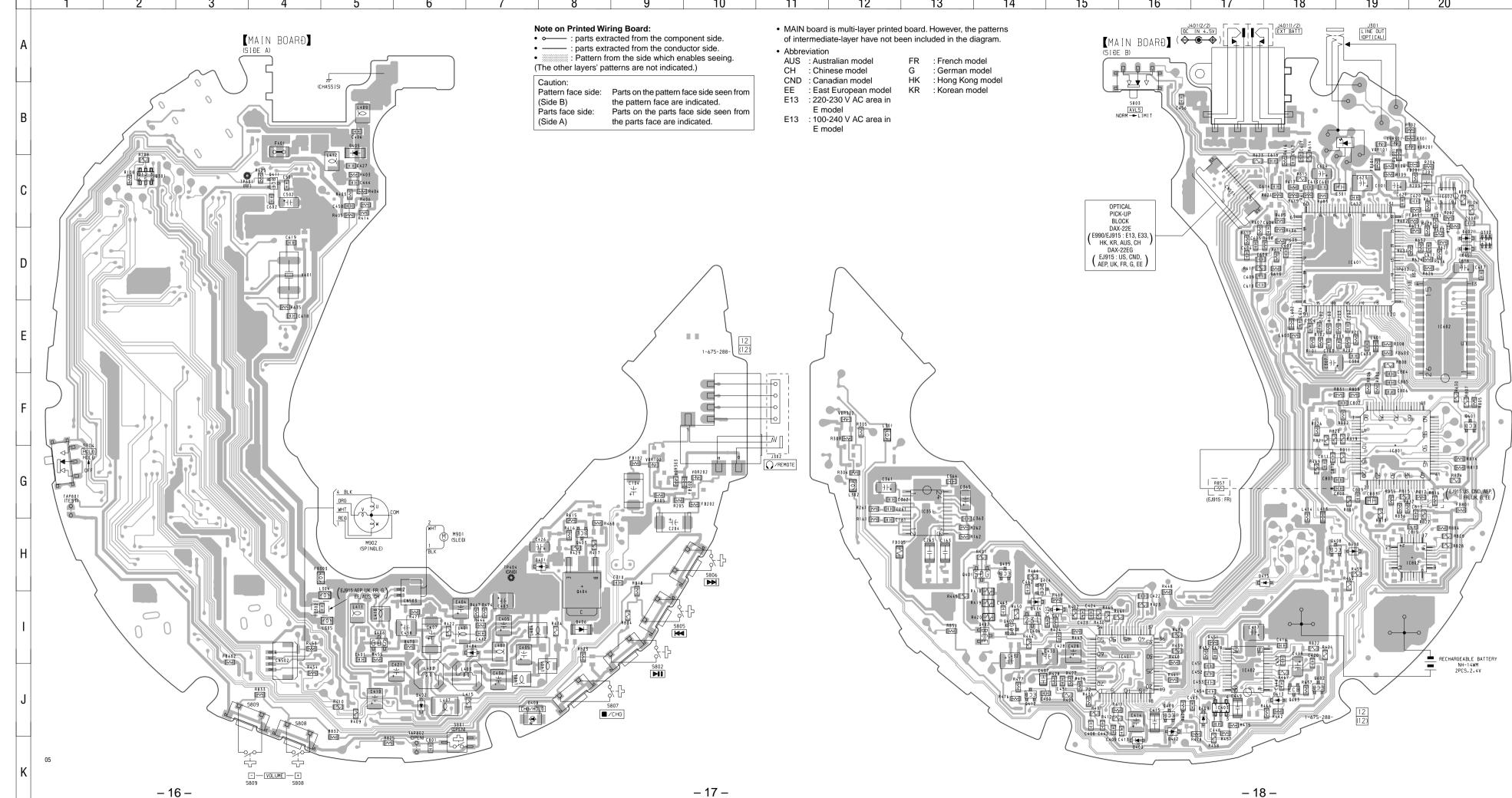
IC601 IC602

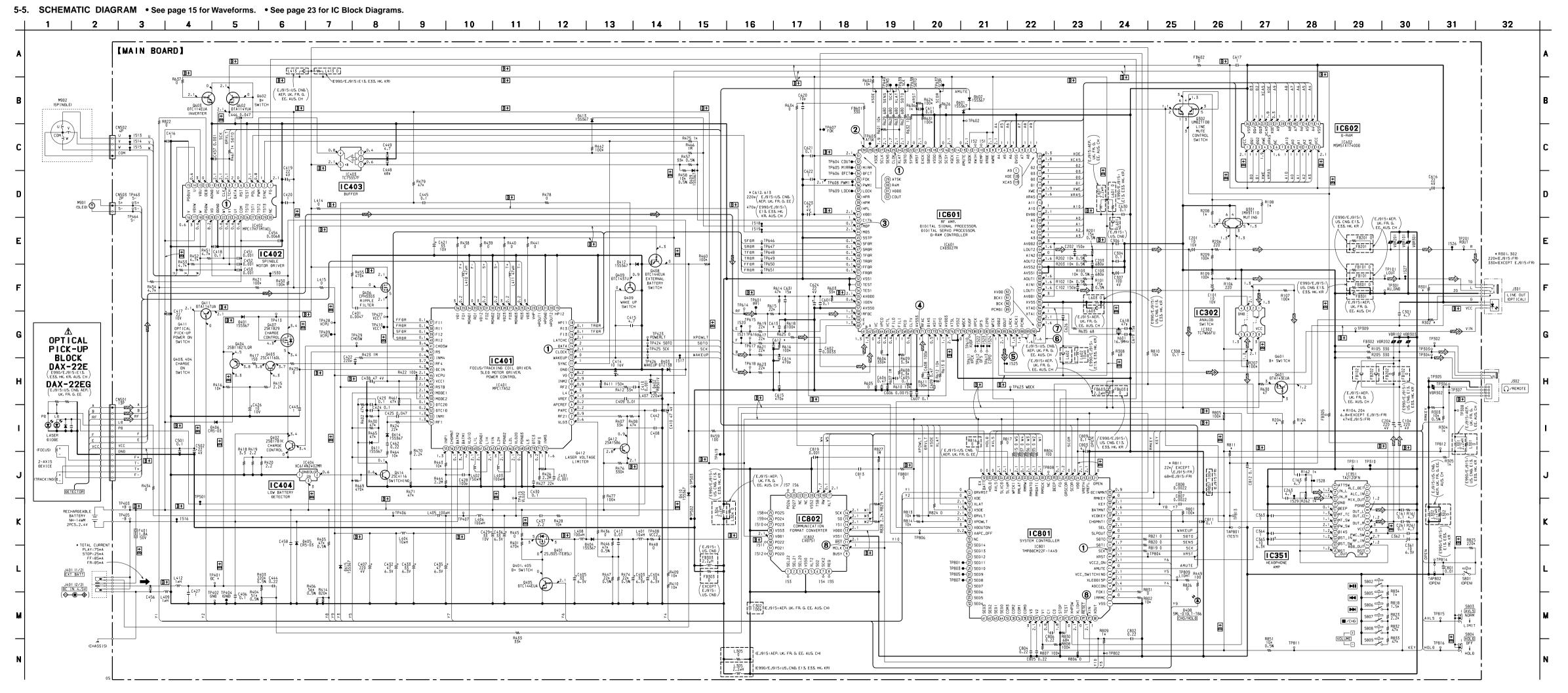
IC801

IC802

Q301 Q302 Q401 Q402 Q403 Q404 Q405 Q406 Q407 Q408 Q409 Q411 Q412 Q414 Q601 Q602 Q603

5-4. PRINTED WIRING BOARD 14 15 Note on Printed Wiring Board: • MAIN board is multi-layer printed board. However, the patterns (MAIN BOARÐ) (SIÐE A) • • : parts extracted from the component side. of intermediate-layer have not been included in the diagram. • — : parts extracted from the conductor side. Abbreviation Pattern from the side which enables seeing. AUS : Australian model FR : French model (The other layers' patterns are not indicated.) : Chinese model : German model CND: Canadian model HK : Hong Kong model Caution: KR : Korean model EE : East European model Pattern face side: Parts on the pattern face side seen from E13 : 220-230 V AC area in the pattern face are indicated. F model Parts face side: Parts on the parts face side seen from E13 : 100-240 V AC area in (Side A) the parts face are indicated. E model OPTICAL PICK-UP BLOCK DAX-22E **(** E990/EJ915 : E13, E33, **)** HK, KR, AUS, CH DAX-22EG (EJ915 : US, CND, AEP, UK, FR, G, EE) P635 HH C618 1-675-288-





Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $^{1}/_{4}$ W or less unless otherwise specified.
- % : indicates tolerance.
- _____ : panel designation.

Note:	Note:
The components identi-	Les composants identifiés p
fied by mark $ extit{Δ}$ or dotted	une marque 🛆 sont critique
line with mark \land are criti-	pour la sécurité.
cal for safety.	Ne les remplacer que par ur
Replace only with part	pièce portant le numé
number specified.	spécifié.

- **B** + : B+ Line.
- Total current is measured with CD installed.
- Power voltage is dc 4.5 V and fed with regulated dc power supply from DC IN jack (J401).
- Voltages and waveforms are dc with respect to ground in playback mode. no mark : CD PLAY
- Voltages are taken with a VOM (Input impedance 10 $M\Omega$). Voltage variations may be noted due to normal production tolerances.
- · Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- : CD PLAY (ANALOG OUT) : CD PLAY (OPTICAL OUT)

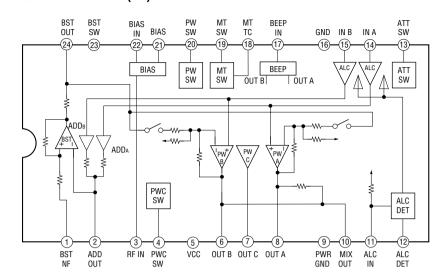
Abbreviation

AUS : Australian model CH : Chinese model : German model CND : Canadian model HK : Hong Kong model EE : East European model KR : Korean model

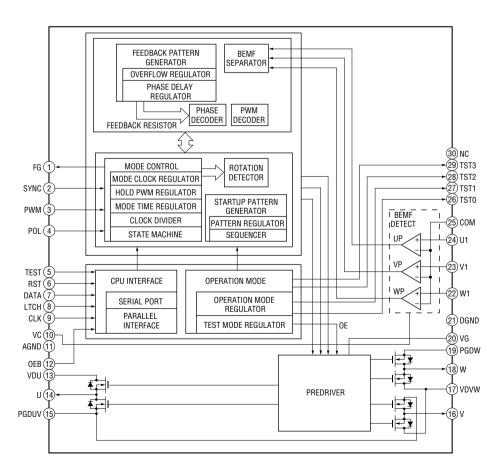
- E13 : 220-230 V AC area in E model
- E33 : 100-240 V AC area in

IC Block Diagrams

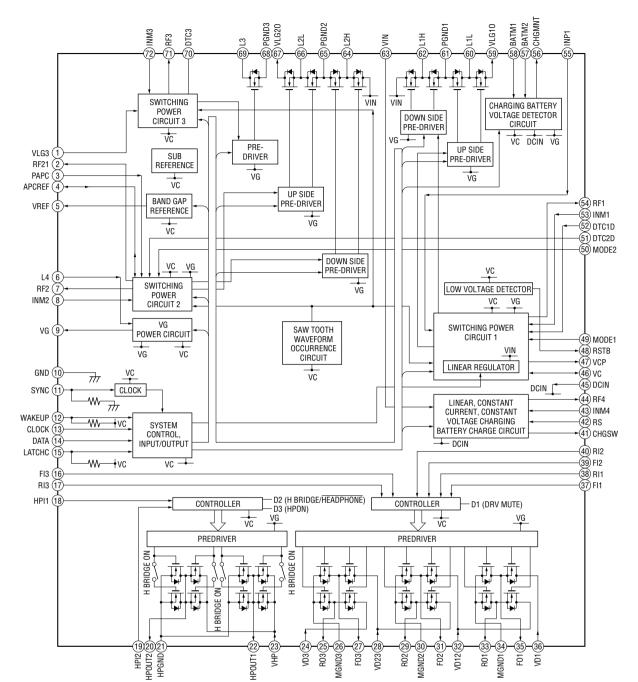
IC351 TA2120FN (EL)



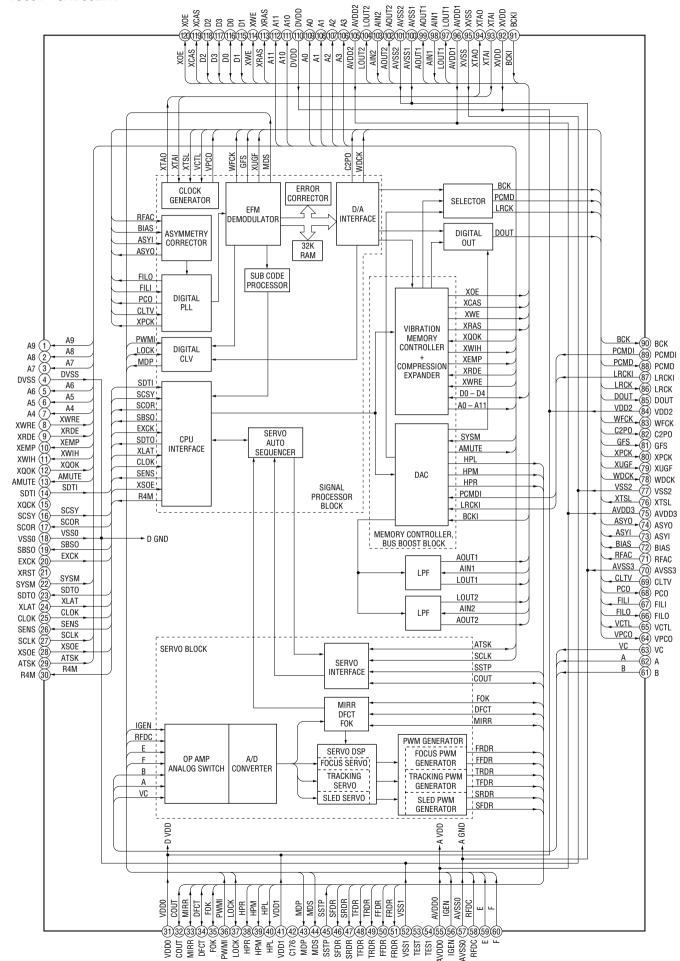
IC402 MPC17H71MTAEL



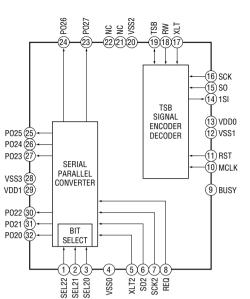
IC401 MPC17A52ZFTA



IC601 CXD3027R



IC802 CXD751-103R



-23 - -25 -

5-6. IC PIN FUNCTION DESCRIPTION

• IC801 TMP88CM22F-1A49 (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	VSS	_	Ground terminal
2	IRRMC	I	Not used (fixed at "L")
3	FOKI	I	Focus OK signal input from the CXD3027R (IC601) "L": NG, "H": OK
4	AGCCON	О	AGC control pulse signal output terminal
5	XLEDDISP	0	CHG/HOLD LED (D408) control signal output terminal
6	VCC SWITCHING	0	Control signal output terminal for the switching power supply circuit
7	AMUTE	О	Analog audio muting ON/OFF control signal output terminal "H": muting ON
8	VCC2 ON	О	VCC2 voltage control signal output terminal
9	XRST	О	Reset signal output to the headphone amp (IC351) and CXD3027R (IC601) "L": reset
10	SCK	О	Serial data transfer clock signal output to the power control (IC401), spindle motor driver (IC402), and CXD3027R (IC601)
11	SDTI	I	Serial data input from the CXD3027R (IC601)
12	SDTO	О	Serial data output to the power control (IC401), spindle motor driver (IC402), and CXD3027R (IC601)
13	SLPOUT	О	Wake-up control signal output to the power control (IC401) (for system standby reset)
14	SEL	I	Plug-in detection signal input terminal of LINE OUT (OPTICAL) jack (J301) (A/D input)
15	CHGMNT1	I	Battery charge voltage detection input from the power control (IC401) (A/D input)
16	VCDKEY	I	Key input terminal Not used (Fixed at "H")
17	BATMNT	I	Battery voltage detection signal input terminal
18	KEY	I	Key input from the S802, S805 to S809 ($\blacktriangleright II$, $\blacktriangleright \leftarrow$, $\blacktriangleright \rightarrow I$, \blacksquare , VOLUME +/-) (A/D input)
19	RMKEY	I	Key input from the headphone with remote commander (A/D input)
20	DCINMNT	I	DC input voltage detection input terminal (A/D input) and DC input jack use/no use detection input terminal (A/D input)
21	OPEN	I	CD door open/close detection switch (S801) input terminal The stop status is reset with the falling edge of input signal
22	VREFL	I	Reference voltage input terminal (0V) for A/D converter
23	VREFH	I	Reference voltage input terminal (+2V) for A/D converter
24	VDD	_	Power supply terminal (+2V)
25	SCOR	I	Sub-code sync (S0+S1) detection signal input from the CXD3027R (IC601)
26	GRSCOR	I	Communication clock signal input from the CXD3027R (IC601)
27	FG	I	FG pulse signal input from the spindle motor driver (IC402)
28	BEEP	О	Beep sound signal output to the headphone amplifier (IC351)
29	NC	_	Not used (open)
30	RMSCK	О	Communication clock output to the communication format converter (IC802)
31	RMDATI	I	Communication data bus input of headphone with remote commander from the communication format converter (IC802)
32	RMDATO	О	Communication data bus output of headphone with remote commander to the communication format converter (IC802)
33	RMRW	О	Read/write control signal output of headphone with remote commander to the communication format converter (IC802) "L": read mode, "H": write mode
34	RMLAT	О	Serial data latch pulse signal output of headphone with remote commander to the communication format converter (IC802)
35	WFCKI	I	Demodulation signal input from the CXD3027R (IC601)
36	SL16M	I	E990/EJ915: E13, E33, Hong Kong, Korean, Australian, and Chinese models: Not used (open) EJ915: US, Canadian, AEP, UK, French, German, and East European models: Not used (pull up)

[•] Abbreviation E13: 220 to 230V AC area in E model, E33: 100 to 240V AC area in E model

Pin No.	Pin Name	I/O	Description
37	SLVCD	I	Not used (fixed at "H")
38	AVLS	I	AVLS (Automatic Volume Limiter System) switch (S803) input terminal "L": normal mode, "H": limit mode
39	HOLD	I	HOLD switch (S804) input terminal "L": hold ON, "H": hold OFF
40	EX BATT	I	External battery detection signal input terminal "H": external battery
41	DRVRST	O	Control signal output to the spindle motor driver (IC402)
42	XOE	О	Optical pick-up power ON/OFF control signal output terminal "L": ON
43	XLAT	О	Serial data latch pulse signal output to the CXD3027R (IC601)
44	XSOE	O	Serial data output enable signal output to the CXD3027R (IC601)
45	DRVLT	О	Latch signal output to the spindle motor driver (IC402)
46	XPOWLT	О	Latch signal output to the power control (IC401)
47	XDOUTON	О	Digital output LED control signal output terminal "L": ON
48	XAPC OFF	О	APC mute signal output terminal "L": mute
49	NC		Not used (open)
50 to 64	SEG14 to SEG0	O	Segment drive signal output terminal for the display Not used (open)
65 to 68	COM3 to COM0	О	Common drive signal output terminal for the display Not used (open)
69 to 71	V3 to V1	О	Bias signal output terminal for the display driver Not used
72, 73	C1, C0	О	Capacitor connected terminal for the display driver voltage-up (for bias)
74	STOP	I	Not used (fixed at "L")
75	TEST	I	Test terminal for internal connection (normally: fixed at "L")
76	XHPSW	O	ON/OFF control signal output to the headphone amp (IC351) "L": ON
77	XLIGHT	O	Back light control signal output terminal for the display Not used (fixed at "L")
78	RESET	I	System reset signal input from the power control (IC401) "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
79	XIN	I	System clock input from the CXD3027R (IC601) (4.2336MHz: 1/4 dividing of 16.9MHz)
80	XOUT	О	System clock output terminal Not used (open)

SECTION 6 EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example:

KNOB, BALANCE (WHITE) . . . (RED) \uparrow

Parts Color Cabinet's Color

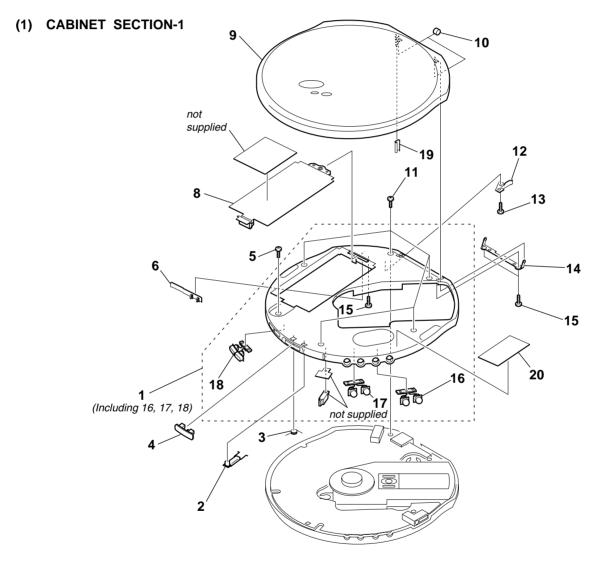
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories and packing materials are given in the last of the electrical parts list.

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiquens pour la sécurité.

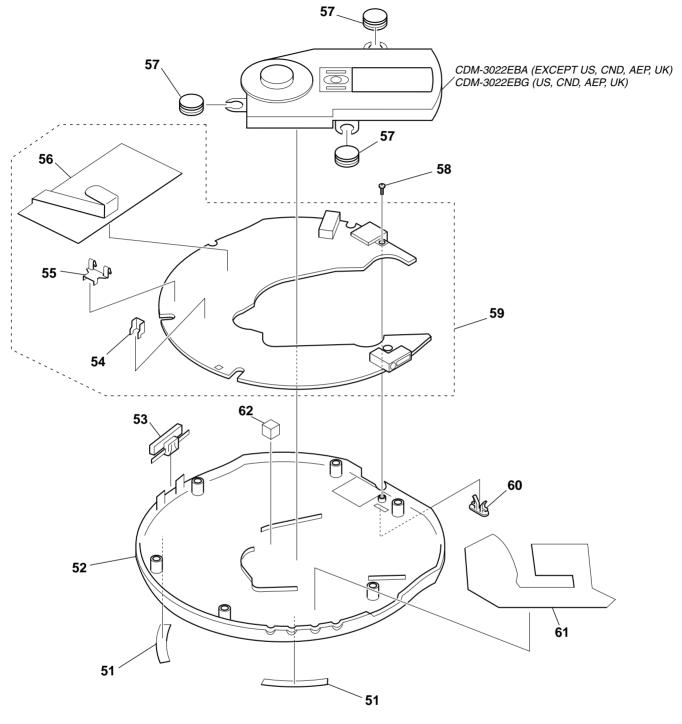
Ne les remplacer que par une pièce portant le numéro spécifié.

Abbreviation
AUS: Australian model E33: 100-240 V AC area
CH: Chinese model in E model
CND: Canadian model FR: French model
EE: East European model
E13: 220-230 V AC area in E model
E14: KR: Korean model



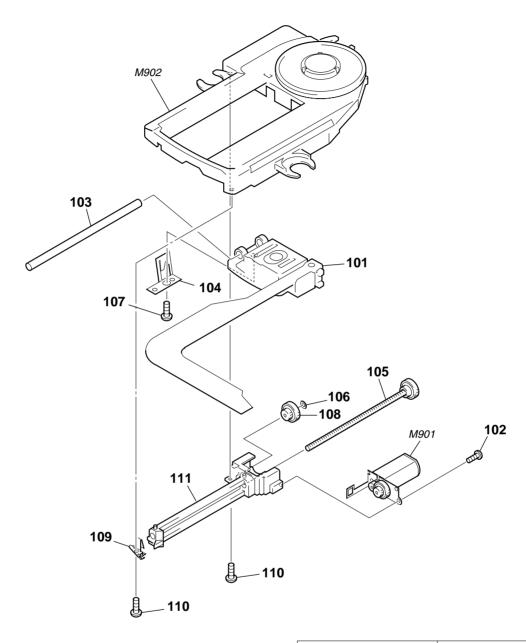
Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
1	X-4952-197-1	CABINET (UPPER) SUB ASSY		11	4-908-792-91	SCREW (B2)	
2	4-224-036-01	LEVER, DETECTION		12	4-224-032-01	PLATE, CLICK	
3	4-224-035-01	SPRING (OPEN)		13	3-318-382-91	SCREW (1.7X2.5), TAPPING	
4	4-224-031-01	KNOB (OPEN)		14	4-224-046-01	BRACKET	
5	4-908-792-51	SCREW (B2)		15	4-908-792-01	SCREW (B2)	
6	4-224-026-01	TERMINAL BOARD (RELAY), BATTER	RΥ	16	4-224-029-01	BUTTON (FF)	
8	X-4952-199-1	LID SUB ASSY, BATTERY CASE		17	4-224-030-01	BUTTON (PLAY)	
9	X-4952-434-1	LID ASSY, UPPER (EJ915:AEP, UK, F	R, G, EE)	18	4-224-028-01	BUTTON (VOL)	
9	X-4952-206-1	LID ASSY, UPPER (E990/EJ915:US, (CND, E13,	19	3-044-608-01	REINFORCEMENT	
		E33, HK, KR	, CH, AUS)	* 20	3-378-433-01	SARANET CUSHION	
10	4-224-227-01	SPACER					

(2) CABINET SECTION-2



Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
51	4-224-048-01	FOOT, RUBBER		59	A-3323-345-A	MAIN BOARD, CO	OMPLETE
52	4-224-039-01	CABINET (LOWER) (E990)				(E	E990/EJ915: E13, E33, HK, KR)
52	4-224-039-11	CABINET (LOWER)		59	A-3323-360-A	MAIN BOARD, CO	OMPLETE (EJ915: FR)
		(EJ915: EXCEP	T E13, HK)	59	A-3323-458-A	MAIN BOARD, CO	OMPLETE (EJ915: US, CND)
52	4-224-039-21	CABINET (REAR) (EJ915: E13, HK)		59	A-3323-490-A	MAIN BOARD, C	OMPLETE
53	4-224-040-01	KNOB (HOLD)					(EJ915: AEP, UK, G, EE)
				59	A-3323-508-A	MAIN BOARD, CO	OMPLETE (EJ915: CH, AUS)
54	4-224-024-01	TERMINAL BOARD (+), BATTERY					
55	3-045-365-01	TERMINAL BOARD (-), BATTERY		60	4-984-751-01	KNOB (AVLS)	
56	4-224-045-01	SHEET (LOWER), BATTERY		61	3-043-218-01	SHEET, RADIATION	ON
57	4-221-927-11	INSULATOR		62	3-043-420-01	CUSHION (MD)	
58	3-318-201-01	SCREW (B) (1.4X3), TAPPING					

(3) MECHANISM DECK SECTION (CDM-3022EBA EXCEPT US, CND, AEP, UK) (CDM-3022EBG US, CND, AEP, UK)



The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101 1	X-3378-495-1	OPTICAL PICK-UP (DAX-22EG)		106	3-338-645-31	WASHER (0.8-2.5)	
		(US, CNE), AEP, UK)	107	3-686-458-03	SCREW (P1.4X3.5), TAPPING	
△ 101	X-4952-079-1	OPTICAL PICK-UP (DAX-22E)		108	4-220-648-01	GEAR (C)	
		(EXCEPT US, CNE), AEP, UK)	109	X-4951-688-1	BRACKET ASSY, SLED	
102	3-704-197-92	SCREW (M1.4X1.8), LOCKING		110	3-348-998-61	SCREW (M1.4X4), TAPPING, PAN	
103	4-220-645-01	SHAFT, STANDARD		111	X-4951-687-1	BASE ASSY, SLED	
104	4-220-646-01	RACK					
				M901	A-3328-299-A	MOTOR BLOCK ASSY, SLED	
105	A-3328-298-A	SCREW ASSY, FEED		M902	A-3328-418-A	CHASSIS ASSY (SPINDLE)	

SECTION 7 ELECTRICAL PARTS LIST

NOTE:

- · Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS

All resistors are in ohms. METAL: Metal-film resistor.

METAL OXIDE: Metal oxide-film resistor.

F: nonflammable

• Abbreviation

AUS: Australian model

CH: Chinese model

CND: Canadian model EE : East European model

E13 : 220-230 V AC area in E

model

G

• Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• SEMICONDUCTORS

In each case, u: μ , for example:

uA. . : μA. . uPB. . : μPB. . uPA. . : μPA. . $uPC..: \mu PC..$

uPD. . : μPD. .

 CAPACITORS uF: μF

• COILS uH: μH

E33 : 100-240 V AC area in

E model : French model

: German model HK: Hong Kong model KR : Korean model

The components identified by mark △ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque A sont critiquens pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description			Remark
<u></u>				<u>-101114111</u>			<u> </u>	0.45		
	A-3323-345-A	MAIN BOARD, COMPLETE	E40 E00	י ווע עווי	C406		CERAMIC CHIP	0.1uF	000/	25V
	A 0000 000 A	(E990/EJ915:		,	C407	1-125-899-11	TANTALUM CHIP		20%	4V
		MAIN BOARD, COMPLETE (E		,	C408	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
		MAIN BOARD, COMPLETE (E	:J915: U	S, GND)	0400	1 100 070 11	CEDAMIC CUID	0.015	100/	OEM
	A-3323-490-A	MAIN BOARD, COMPLETE	4.E. A.E.D. I	UIZ O EE\	C409		CERAMIC CHIP	0.01uF	10%	25V
	4 0000 500 4			UK, G, EE)	C410		TANTALUM CHIP		20%	4V
	A-3323-508-A	MAIN BOARD, COMPLETE (E	:J915: CI	1, AUS)	C412		CERAMIC CHIP	0.01uF	10%	25V
		*****			C413		CERAMIC CHIP	0.001uF	10%	50V
	0.045.005.04	TERMINIAL BOARD () DATE	-EDV		C414	1-104-913-11	TANTALUM CHIP	TOUF	20%	16V
		TERMINAL BOARD (-), BATT			0415	1 115 500 11	CEDAMIC CUID	4 7F	100/	10V
		TERMINAL BOARD (+), BATTERY	IERY		C415		CERAMIC CHIP	4.7uF	10%	
	4-224-045-01	SHEET (LOWER), BATTERY			C416		CERAMIC CHIP	1uF	000/	10V
		CADACITOD			C417		TANTALUM CHIP		20%	10V
		< CAPACITOR >			C418		CERAMIC CHIP	0.1uF	000/	25V
0101	1 104 051 11	TANTALLINA OLUD. 40E	000/	101/	C419	1-104-847-11	TANTALUM CHIP	22UF	20%	4V
C101		TANTALUM CHIP 10uF	20%	10V	0.400	4 445 450 44	OED AMIO OLUD	4		101/
C102		CERAMIC CHIP 150PF	5%	50V	C420		CERAMIC CHIP	1uF	000/	10V
C103		CERAMIC CHIP 680PF	10%	50V	C421		TANTALUM CHIP		20%	10V
C104		TANTALUM CHIP 220uF	20%	4V	C422		CERAMIC CHIP	220PF	10%	50V
C161	1-107-826-11	CERAMIC CHIP 0.1uF	10%	16V	C423		CERAMIC CHIP	0.1uF		25V
0400	4 445 500 44	OFDAMIO OLUB 4.7.F	4.00/	401/	C424	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C163		CERAMIC CHIP 4.7uF	10%	10V	0.405	4 405 470 44	OED AMIO OLUB	0.047.5	4.00/	401/
C201		TANTALUM CHIP 10uF	20%	10V	C425		CERAMIC CHIP	0.047uF	10%	16V
C202		CERAMIC CHIP 150PF	5%	50V	C426		TANTALUM CHIP		20%	10V
C203		CERAMIC CHIP 680PF	10%	50V	C427		CERAMIC CHIP	1uF	F0/	10V
C204	1-125-899-11	TANTALUM CHIP 220uF	20%	4V	C428		CERAMIC CHIP	100PF	5%	50V
0004	4 407 000 44	OFDAMIO OLUB	4.00/	401/	C429	1-113-682-11	TANTALUM CHIP	33UF	20%	10V
C261		CERAMIC CHIP 0.1uF	10%	16V	0.400	1 107 000 11	OED AMIO OLUD	0.45	100/	101/
C263		CERAMIC CHIP 4.7uF	10%	10V	C430		CERAMIC CHIP	0.1uF	10%	16V
C301		CERAMIC CHIP 4.7uF	F0/	10V	C431		CERAMIC CHIP	0.001uF	10%	50V
C302	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	C432		TANTALUM CHIP		20%	6.3V
0004	1 104 150 11	(EJ915: AEP, UK, F	K, G, EE,	. ,	C433		TANTALUM CHIP		20%	6.3V
C304	1-164-156-11	CERAMIC CHIP 0.1uF		25V	C435	1-110-569-11	TANTALUM CHIP	4/ur	20%	6.3V
C306	1-115-156-11	CERAMIC CHIP 1uF		10V	C436	1-104-752-11	TANTALUM CHIP	33uF	20%	6.3V
C307		TANTALUM CHIP 100uF	20%	4V	C437		CERAMIC CHIP	2.2uF	10%	6.3V
C308	1-164-156-11	CERAMIC CHIP 0.1uF		25V	C438	1-110-569-11	TANTALUM CHIP	47uF	20%	4V
C361		TANTALUM CHIP 10uF	20%	6.3V	C442		CERAMIC CHIP	1uF		10V
C362		CERAMIC CHIP 1uF		10V	C443		CERAMIC CHIP	1uF		10V
C363	1-125-837-11	CERAMIC CHIP 1uF	10%	6.3V	C444	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C364	1-115-156-11	CERAMIC CHIP 1uF		10V	C445	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C365	1-135-259-11	TANTALUM CHIP 10uF	20%	6.3V	C446	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C401	1-162-968-11	CERAMIC CHIP 0.0047uF	10%	50V	C448	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C403	1-104-752-11	TANTALUM CHIP 33uF	20%	6.3V	C449	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V
C404		TANTALUM CHIP 33uF	20%	6.3V	C451		CERAMIC CHIP	0.001uF	10%	50V
C405	1-104-752-11	TANTALUM CHIP 33uF	20%	6.3V	C452	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C453		CERAMIC CHIP	0.001uF	10%	50V			< DIODE >			
C454		CERAMIC CHIP	0.0068uF		25V			(DIODE >			
C456		CERAMIC CHIP	1uF		10V	D401	8-719-049-09	DIODE 1SS367-	T3SONY		
						D402		DIODE RB501V-			
C457		CERAMIC CHIP	0.001uF	10%	50V	D403		DIODE UDZ-TE-			
C458		CERAMIC CHIP	1uF	100/	10V	D404		DIODE 1SS367-			
C462		CERAMIC CHIP	0.22uF	10%	10V	D405	8-/19-0//-01	DIODE CRS03 (1	E85L)		
C501 C502		CERAMIC CHIP TANTALUM CHIP	0.1uF	20%	25V 4V	D406	8-710-077-01	DIODE CRS03 (1	TE851 \		
0302	1-104-047-11	TANTALOW OTH	22ui	2070	7 V	D400 D408		LED SML-010LT		HOLD)	
C601	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D409		DIODE 1SS367-		,	
C602		CERAMIC CHIP	0.0033uF	10%	50V	D410		DIODE 1SS367-			
C604		CERAMIC CHIP	0.47uF	10%	10V	D411	8-719-049-09	DIODE 1SS367-	T3SONY		
C605		CERAMIC CHIP	0.1uF	10%	16V						
C606	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V	D412		DIODE 188367-			
C607	1_16/_156_11	CERAMIC CHIP	0.1uF		25V	D413 D414		DIODE 1SS367-			
C608		CERAMIC CHIP	100PF	5%	50V	D414 D415		DIODE 188367-			
C609		CERAMIC CHIP	0.47uF	10%	10V	D601		DIODE 188367-			
C611		CERAMIC CHIP	0.01uF	10%	25V						
C612	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	D602	8-719-049-09	DIODE 1SS367-	T3SONY		
		(EJ915:	US, CND, A	EP, UK,	FR, G, EE)						
0040	1 100 000 11	OED ANALO OLUD	470DE	400/	501			< IC RINK >			
C612	1-162-962-11	CERAMIC CHIP (E990/EJ915		10%	50V	F401	1 576 407 01	RINK, CHIP IC	1 0 /	50V	
C613	1-162-960-11	CERAMIC CHIP		пк, кк, 10%	50V	Γ 4 01	1-3/0-42/-21	KINK, UNIP IU	1.0A	30 V	
0010	1 102 300 11		US, CND, A					< FERRITE BEAD/	COIL/RESIS	STOR >	
C613	1-162-962-11	CERAMIC CHIP		10%	50V			, , , , , , , , , , , , , , , , , , , ,	00.2,20.0		
		(E990/EJ915	5: E13, E33,	HK, KR,	AUS, CH)	FB101	1-216-864-11	METAL CHIP	0	5%	1/16W
C614		CERAMIC CHIP		10%	50V			(E990/EJ915	5: US, CND,	E13, E33	8, HK, KR)
C615	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	FB101	1-414-760-21	FERRITE BEAD	4 E D 1111 / E		A110 011)
0010	1 104 047 11	TANTAL LIM CLUD	00	20%	4V	FB102	1-216-864-11	,	AEP, UK, FI	₹, G, EE, 5%	AUS, CH) 1/16W
C616 C617		TANTALUM CHIP CERAMIC CHIP	1uF	2070	4 v 10 V	FD1U2	1-210-004-11	(E990/EJ915	O CND		
C618		CERAMIC CHIP	47PF	5%	50V	FB102	1-414-760-21	FERRITE BEAD	7. 00, UND,	L 10, L00), IIIX, IXII <i>)</i>
C619		CERAMIC CHIP	15PF	5%	50V	15102			AEP, UK, FI	R. G. EE.	AUS. CH)
C620	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	FB201	1-216-864-11		0	5%	1/16W
								(E990/EJ915	: US, CND,	E13, E33	8, HK, KR)
C621		CERAMIC CHIP	0.1uF		25V	ED004	4 444 700 04	FERRITE DE AR			
C622			1uF	000/	10V	FB201	1-414-760-21	FERRITE BEAD	AED 1117 EI		ALIC CIII
C623 C624		TANTALUM CHIP		20% 20%	4V 4V	ERONO	1_016_96/_11	METAL CHIP	AEP, UK, FI 0	1, G, EE, 5%	1/16W
C626		CERAMIC CHIP	1uF	2070	10V	1 0202	1-210-004-11	(E990/EJ915			
						FB202	1-414-760-21	FERRITE BEAD	, ,	,	, , ,
C630		CERAMIC CHIP	0.1uF		25V			(EJ915:	AEP, UK, FI	R, G, EE,	AUS, CH)
C631		CERAMIC CHIP	15PF	5%	50V	FB301	1-216-864-11		0	5%	1/16W
C801		CERAMIC CHIP	0.01uF	10%	25V	ED004	4 44 4 700 04	(E990/EJ915	5: US, CND,	E13, E33	B, HK, KR)
C802 C803		CERAMIC CHIP CERAMIC CHIP	0.22uF 4.7uF	10%	10V 10V	FB301	1-414-760-21	FERRITE BEAD	AEP, UK, FI	O C EE	VIIC CH/
0003	1-117-720-11	CLIMINIC CITIF	4.7 ui		100			(1091).	ALF, UK, II	1, U, LL,	AUS, UII)
C804	1-165-128-11	CERAMIC CHIP	0.22uF		16V	FB302	1-414-760-21	FERRITE BEAD			
C805		CERAMIC CHIP	0.22uF		16V	FB303	1-216-295-00		0 (EXCEPT	EJ915: I	US, CND)
C806	1-165-128-11	CERAMIC CHIP	0.22uF		16V	FB303	1-410-997-22	INDUCTOR CHIP	2.2uH (EJ9	15: US,	CND)
C807		CERAMIC CHIP	0.0022uF		50V	FB305	1-216-295-00		0		
C808	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	FB601	1-216-815-11	METAL CHIP	330	5%	1/16W
C809	1 16/ 156 11	CERAMIC CHIP	0.1uF		25V	FB602	1-216-864-11	METAL CUID	0	5%	1/16W
C811		CERAMIC CHIP	0.1uF		25V 25V	FB603	1-216-864-11		0	5%	1/16W
C812		CERAMIC CHIP	0.1uF		25V	1 5000	1 210 001 11	(E990/EJ915			
C813		CERAMIC CHIP	1uF		10V	FB603	1-410-997-22	INDUCTOR CHIP		,	, , ,
C819	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V			(EJ915:	AEP, UK, FI	R, G, EE,	AUS, CH)
		000				FB801	1-216-864-11	METAL CHIP	0	5%	1/16W
		< CONNECTOR >						. 10 .			
CNEO1	1-572 000 01	CONNECTOR ELG	YEDC (715)	12D				< IC >			
CN501 * CN502		CONNECTOR, FFC HOUSING, CONNE	٠,	131		IC302	8-750-488-20	IC TC7W66FU (T	F12R)		
CN502		HOUSING, CONNE				IC302		IC TA2120FN (EI			
2						IC401		IC MPC17A52ZF	,		
						IC402		IC MPC17H71M			

CAUST 8-759-594-56 C TC75SFF (T838F) C	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description		Remark
Clop							•		
C600			, ,						
C6002 8-759-594-56 C MSMS1NT7400D-10TFSR1 C10802 8-752-397-55 C CX0751-1081 C4002 8-752-397-35 C CX0751-1081									
1.0801									
CR02 8-752-397-55 C CXD751-109R									
SACK									
1-793-659-11 JACK (CYREMOTE) JACK (CYREMOT	IC802	8-752-397-55	IC CXD751-103R		Q403	8-729-231-74	TRANSISTOR	2SC4116-GL	
1-793-659-11 JACK, OPTICAL DUT (LINE OUT (OPTICAL)) JA06 8-729-027-36 FET CPH-3303-TL			< JACK >						
3-302 1-793-288-11 JACK (C/PERMOTE) JACK (C/PEMOTE) JACK (C/PEMOTE) JACK (C/PEMOTE) JACK (C/PEMOTE) JACK (C/PEMOTE) JACK (C/PEMO									106
1-793-156-12 JACK, DC (EXT EATT/DC IN 4.59V) 0468 8-729-0229-14 TRANSISTOR DTC144EUA-T106 0468 8-729-0229-14 TRANSISTOR 0418 8-729-0229-17 TRANSISTOR 0418 8-729-0229-16 TRANSISTOR 0418 8-729-0229-17 TRANSISTOR 0418 8-729-0229-18 0418 8-729-0229-17 TRANSISTOR 0418 8-729-0229-18 041			,	CAL))					
COUL/FERRITE BEAD/RESISTOR > CHI									
Carrier Carr	J401	1-793-156-12	JACK, DC (EXT BATT/DC IN 4.5V)		Q408	8-729-029-14	TRANSISTOR	DTC144EUA-T	106
Carrier Carr			< COIL/FERRITE BEAD/RESISTOR >		Q409	8-729-029-10	TRANSISTOR	DTC143TUA-T	106
1-216-295-00 SHORT 0			1 0 0 1 2 1 1 1 1 1 1 2 2 1 1 2 7 1 1 2 0 1 0 1 0 1 1 7						
CE990E.915: US, CND, E13, E33, HK, KR) CH Face CH CH CH CH CH CH CH C	L301	1-216-295-00	SHORT 0						
L301 1-410-997-22 NDUCTOR CHIP 2-20H CE1915 AFP UK, FR, G, EE, AUS, CH) CE3905.4FP			(E990/EJ915: US, CND, E13, E33,	HK, KR)		8-729-231-74	TRANSISTOR		
(E3915: AFP, UK, FR, G, EE, AUS, CH) L302 1-216-295-00 SHORT 0 L304 1-216-295-00 SHORT 0 L305 1-216-295-00 SHORT 0 (E3915: AFP, UK, FR, G, EE, AUS, CH) (E3905: BF) (E3915: AFP, UK, FR, G, EE, AUS, CH) (E3905: BF) (E3915: AFP, UK, FR, G, EE, AUS, CH) (E3905: BF) (E3915: AFP, UK, FR, G, EE, AUS, CH) (E3905: BF) (E3915: AFP, UK, FR, G, EE, AUS, CH) (E3905: BF) (E3915: AFP, UK, FR, G, EE, AUS, CH) (E3905: BF) (E3915: AFP, UK, FR, G, EE, AUS, CH) (E3905: BF) (E3915: AFP, UK, FR, G, EE, AUS, CH) (E3905: BF) (E3915: AFP, UK, FR, G, EE, AUS, CH) (E3905: BF) (E3915: AFP, UK, FR, G, EE, AUS, CH) (E3905: BF) (E3915: AFP, UK, FR, G, EE, AUS, CH) (E3905: BF) (E3915: AFP, UK, FR, G, EE, AUS, CH) (E3905: BF) (E3906: B	L301	1-410-997-22		,,					106
L302 1-216-295-00 SHORT O (6990/L915: E13, E33, HK, KR) C (6990/L915: US, CND, AFP UK, FR, G, EE, AUS, CH) C (6990/L915: US, CND, CAS) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: APP, UK, FR, G, EE, AUS, CH) C (690)C4915: US, CND, E13, E33, HK, KR) C (690)C4915: US, CND, E13, E33, HK, KR) C (690)C4915: US, CND, E13, E33, HK, KR) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: APP, UK, FR, G, EE, AUS, CH) C (6915: UK, CND, CAP, UK, FR, G, EE, AUS, CH) C (6915: UK, CND, CAP, UK, FR, G, EE, AUS, CH) C (6915: UK, CND, CAP, UK, FR, G, EE, AUS, CH) C (6915: UK, CND, CAP, UK, FR, G, EE, AUS, CH) C (6915: UK, CND, CAP, UK, FR, G, EE, AUS, CH) C (6915: UK, CND, CAP, UK, FR, G, EE, AUS, CH) C (6915: UK, CND, CAP, UK, FR, G, EE, AUS, CH) C (6915: UK, CND, CAP, UK, FR, G, EE, AUS, CH) C (6915: UK, CND, CAP, UK, FR, G, EE, AUS, CH) C (6915: UK, CND, CAP, UK, FR, G, EE, AUS, CH) C (6915: UK, CND, CAP, UK, FR, G, EE, AUS, CH) C (6915: UK, CND, CAP, UK, FR, G, EE, AUS, CH) C (6915: UK, CND, CAP, UK, FR, G, EE, AUS, CH) C (6915: UK, CND, CAP, UK, FR, G, EE, AUS, CH) C (6915: UK, CND, CAP, UK, FR, G, EE, AUS,				AUS. CH)					
Comparison Com	L302	1-216-295-00		,	Q602	8-729-028-76	TRANSISTOR	DTA114YUA-T	106
1.302 1-410-997-22 INDUCTOR CHIP 2.24H (E.915: U.S. C.R.) C.P.	2002	1 210 200 00		HK. KR)					100
1-216-295-00 SHORT 0 (E.915: AEP, UK, FR, G, EE, AUS, CH) (E.995-1915: US, CND, E13, E33, HK, KR) (E.990-1915: US, CND, E13, E33, HK, KR) (E.991-1915: FR)	L302	1-410-997-22			4000	0.120.00.00		2.020	
Carrier Carr				AUS, CH)			< RESISTOR >		
1.304	L304	1-216-295-00							
1-410-997-22 INDUCTOR CHIP 2.2H (E990/E915: US, CND, E13, E33, HK, KR) (E990/E915: US, CND, E13, E33, HK, KR) (E990/E915: US, CND, E13, E33, HK, KR) (E395: FR)			(EJ915: AEP, UK, FR, G, EE, <i>F</i>	AUS, CH)					
Carrier Carr									
1.216-295-00 SHORT 0	L304	1-410-997-22							
Carrier Carr				HK, KR)	R104	1-216-831-11	METAL CHIP		
CE990/EJ915: FR CE990/EJ915: E13, E33, HK, KR CE990/EJ915:	L305	1-216-295-00							
L401 1-414-398-11 INDUCTOR 10UH R106 1-216-813-11 METAL CHIP 220 5% 1/16W R107 1-216-845-11 METAL CHIP 220 5% 1/16W R107 1-216-845-11 METAL CHIP 10K 5% 1/16W R108 1-216-821-11 METAL CHIP 10K 5% 1/16W R109 1-216-845-11 METAL CHIP 10K 5% 1/16W R109 1-216-845-11 METAL CHIP 10K 0.5% 1/16W R109 1-216-845-11 METAL CHIP 10K 0.5% 1/16W R108 1-216-831-11 METAL CHIP 10K 0.5% 1/16W R109 1-216-845-11 METAL CHIP 10K 0.5% 1/16W R108 R109 R108 R109 R108 R				AUS, CH)	R104	1-216-841-11	METAL CHIP	4/K 5%	
L401	L305	1-410-997-22							(EJ915: FR)
L402				HK, KR)					
L403									
L403	L402	1-419-189-21	INDUCTOR 150uH						
L404									
L405									
L406					R109	1-216-845-11	METAL CHIP	100K 5%	1/16W
L407 1-414-435-21 INDUCTOR 220uH R162 1-216-821-11 METAL CHIP 15K 0.5% 1/16W R201 1-218-875-11 METAL CHIP 15K 0.5% 1/16W R202 1-218-871-11 METAL CHIP 10K 0.5% 1/16W R202 1-218-871-11 METAL CHIP 10K 0.5% 1/16W R203 1-218-871-11 METAL CHIP 10K 0.5% 1/16W R204 1-216-831-11 METAL CHIP 20K 20K 1/16W R204 1-216-831-11 METAL CHIP 20K 20K 1/16W R205 1-216-845-11 METAL CHIP 20K 20K 1/16W R207 1-216-845-11 METAL CHIP 10K 5% 1/16W R207 1-216-845-11 METAL CHIP 10K 5% 1/16W R207 1-216-845-11 METAL CHIP 10K 5% 1/16W R208 1-216-845-11 METAL CHIP 10K 5% 1/16W R208 1-216-845-11 METAL CHIP 10K 5% 1/16W R208 1-216-845-11 METAL CHIP 10K 5% 1/16W R209 1-216-845-11 METAL CH					D.10.1	4 040 700 44	DE0 0111D	4.7 50/	4 /4 00 44
L408 1-414-404-41 INDUCTOR 100									
L408 1-414-404-41 INDUCTOR 100H L409 1-414-392-41 INDUCTOR 1UH L411 1-414-402-11 INDUCTOR 47UH L411 1-414-402-11 INDUCTOR 47UH L412 1-414-392-41 INDUCTOR 1UH L413 1-216-864-11 METAL CHIP 0 5% 1/16W (E990/EJ915: E13, E33, HK, KR) L413 1-414-760-21 FERRITE BEAD (E990/EJ915: E13, E33, HK, KR) L414 1-216-864-11 METAL CHIP 0 5% 1/16W L415 1-216-864-11 METAL CHIP 0 5% 1/16W L416 1-216-864-11 METAL CHIP 0 5% 1/16W L417 1-216-864-11 METAL CHIP 0 5% 1/16W L418 1-216-864-11 METAL CHIP 0 5% 1/16W L419 1-216-864-11 METAL CHIP 0 5% 1/16W L410 1-216-864-11 METAL CHIP 0 5% 1/16W L411 1-216-864-11 METAL CHIP 0 5% 1/16W L412 1-216-864-11 METAL CHIP 0 5% 1/16W L413 1-414-760-21 FERRITE BEAD (E990/EJ915: E13, E33, HK, KR) L414 1-216-864-11 METAL CHIP 0 5% 1/16W L415 1-216-295-00 SHORT 0 R208 1-216-845-11 METAL CHIP 100K 5% 1/16W L416 1-216-864-11 METAL CHIP 0 5% 1/16W L417 1-216-864-11 METAL CHIP 0 5% 1/16W L418 1-216-864-11 METAL CHIP 0 5% 1/16W L419 1-216-84-11 METAL CHIP 10K 5% 1/16W L419 1-216-84-11 METAL CHIP 10K 5% 1/16W L419 1-216-864-11 METAL CHIP 10K 5% 1/16W (E990/EJ915: E13, E33, HK, KR) L410 1-414-760-21 FERRITE BEAD (EJ915: AEP, UK, FR, G, EE, AUS, CH) L410 1-414-760-21 FERRITE BEAD (EJ915: E13, E33, HK, KR) L411 1-216-864-11 METAL CHIP 220K 5% 1/16W (EJ915: FR) L411 1-216-864-11 METAL CHIP 220K 5% 1/16W (EJ915: FR) L411 1-216-864-11 METAL CHIP 220K 5% 1/16W (EJ915: FR) L411 1-216-864-11 METAL CHIP 220K 5% 1/16W (EJ915: FR) L411 1-216-864-11 METAL CHIP 220K 5% 1/16W (EJ915: FR) L411 1-216-864-11 METAL CHIP 220K 5% 1/16W (EJ915: FR) L411 1-216-864-11 METAL CHIP 220K 5% 1/16W (EJ915: FR) L412 1-216-864-11 METAL CHIP 220K 5% 1/16W (EJ915: FR) L413 1-216-864-11 METAL CHIP 220K 5% 1/16W (EJ915: FR) L414 1-216-864-11 METAL CHIP 220K 5% 1/16W (EJ915: FR) L415 1-216-864-11 METAL CHIP 220K 5% 1/16W (EJ915: FR) L415 1-216-864-11 METAL CHIP 220K 5% 1/16W (EJ915: FR) L415 1-216-864-11 METAL CHIP 220K 5% 1/16W (EJ915: FR) L415 1-216-864-11 METAL CHIP 220K 5% 1/16W (EJ915: FR) L415 1-216-864-11 METAL CHIP 220K 5% 1/16W (EJ915: F	L407	1-414-435-21	INDUCTOR 220uH						
L409 1-414-392-41 INDUCTOR 1uH	1.400	4 44 4 40 4 44	INDUOTOD 400 II						
L410 1-414-402-11 INDUCTOR 47uH L411 1-414-402-11 INDUCTOR 47uH L412 1-414-392-41 INDUCTOR 1uH L413 1-216-864-11 METAL CHIP 0 5% 1/16W (E990/EJ915: E13, E33, HK, KR) L413 1-414-760-21 FERRITE BEAD (E990/EJ915: E13, E33, HK, KR) L414 1-216-864-11 METAL CHIP 0 5% 1/16W (E990/EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) L415 1-216-295-00 SHORT 0 5% 1/16W L416 1-216-864-11 METAL CHIP 0 5% 1/16W L417 1-216-864-11 METAL CHIP 0 5% 1/16W L418 1-216-864-11 METAL CHIP 0 5% 1/16W L419 1-216-864-11 METAL CHIP 0 5% 1/16W L410 1-216-864-11 METAL CHIP 0 5% 1/16W L411 1-216-864-11 METAL CHIP 0 5% 1/16W L412 1-414-760-21 FERRITE BEAD (EJ915: E13, E33, HK, KR) (E990/EJ915: E13, E33, HK, KR) L601 1-414-760-21 FERRITE BEAD (EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) L602 1-414-760-21 FERRITE BEAD (EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) L603 1-216-864-11 METAL CHIP 10H (EJ915: E13, E33, HK, KR) (EJ915: FR) L603 1-216-864-11 METAL CHIP 0 5% 1/16W (EJ90/EJ915: E13, E33, HK, KR) (EJ915: FR) L603 1-414-760-21 FERRITE BEAD (EJ915: E13, E33, HK, KR) (EJ915: FR) L603 1-414-760-21 FERRITE BEAD (EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) (EJ90/EJ915: E13, E33, HK, KR) (EJ915: FR) L603 1-414-760-21 FERRITE BEAD (EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) (EJ90/EJ915: E13, E33, HK, KR) (EJ915: FR) L603 1-414-760-21 FERRITE BEAD (EJ915: E13, E33, HK, KR) (EJ915: FR) L603 1-414-760-21 FERRITE BEAD (EJ915: E13, E33, HK, KR) (EJ915: FR) L603 1-414-760-21 FERRITE BEAD (EJ915: E13, E33, HK, KR) (EJ915: FR) L603 1-414-760-21 FERRITE BEAD (EJ915: E13, E33, HK, KR) (EJ915: FR) L603 1-414-760-21 FERRITE BEAD (EJ915: E13, E33, HK, KR) (EJ915: FR) (E									
L411 1-414-402-11 INDUCTOR 47uH L412 1-414-392-41 INDUCTOR 1uH L413 1-216-864-11 METAL CHIP 0 5% 1/16W					R203	1-218-8/1-11	METAL CHIP	10K 0.5	% 1/16W
L412 1-414-392-41 INDUCTOR 1uH R204 1-216-841-11 METAL CHIP 0 5% 1/16W (EJ90/EJ915: E13, E33, HK, KR) L413 1-216-864-11 METAL CHIP 0 5% 1/16W (E990/EJ915: E13, E33, HK, KR) L413 1-414-760-21 FERRITE BEAD (EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) L414 1-216-864-11 METAL CHIP 0 5% 1/16W R206 1-216-845-11 METAL CHIP 220 5% 1/16W R207 1-216-845-11 METAL CHIP 100K 5% 1/16W R208 1-216-845-11 METAL CHIP 100K 5% 1/16W R209 1-216-845-11 METAL CHIP 1 K 5% 1/16W R209 1-216-845-11 METAL CHIP 1 K 5% 1/16W R209 1-216-845-11 METAL CHIP 1 K 5% 1/16W R209 1-216-849-11 METAL CHIP 20K 5% 1/16W R209 1-216-851-11 METAL CHIP 20K 5% 1/16W R209 1-216-851-					D004	1 010 001 11	METAL OLUB	0.01/	4/4004
R204 1-216-841-11 METAL CHIP 47K 5% 1/16W (EJ915: FR)					R204	1-216-831-11	METAL CHIP		
L413 1-216-864-11 METAL CHIP 0 5% 1/16W (E990/EJ915: E13, E33, HK, KR) (E990/EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) (E990/EJ915: E13, E33, HK, KR) (E990/EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) (E990/EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) (E990/EJ915: E13, E33, HK, KR) (E990/EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) (E990/EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) (E990/EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) (E990/EJ915: US, CND, E13, E33, HK, KR) (E990/EJ915: US, CND, E13,	L412	1-414-392-41	INDUCTOR TUH		D004	1 010 041 11	METAL OLUD	,	,
CE990/EJ915: E13, E33, HK, KR R205 1-216-815-11 METAL CHIP 330 5% 1/16W R206 1-216-813-11 METAL CHIP 220 5% 1/16W R207 1-216-845-11 METAL CHIP 220 5% 1/16W R207 1-216-845-11 METAL CHIP 100K 5% 1/16W R207 1-216-845-11 METAL CHIP 100K 5% 1/16W R207 1-216-845-11 METAL CHIP 100K 5% 1/16W R208 1-216-845-11 METAL CHIP 100K 5% 1/16W R209 1-216-845-11 METAL CHIP 100K 5% 1/16W R206 1-216-849-11 METAL CHIP 220K 5% 1/16W R206 1-216-849-11 METAL CHIP 330K 5% 1/16W R206 1-216-849-11 METAL CHIP 330K 5% 1/16W R206 1-216-849-11 METAL CHIP 220K 5% 1/16W R206 1-216-849-11 METAL CHIP	1.410	1 010 004 11	METAL CLUD O E0/	4 /4 C\M	R204	1-216-841-11	METAL CHIP	4/K 5%	
L413 1-414-760-21 FERRITE BEAD (EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) (EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) (EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) (EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) (EJ916-845-11 METAL CHIP 100K 5% 1/16W R209 1-216-845-11 METAL CHIP 200K 5% 1/16W R209 1-216-849-11 METAL CHIP	L413	1-210-804-11			DOOF	1 010 015 11	METAL CLUD	220 50/	,
Carry Carr	1.440	4 44 4 700 04	· ·	HK, KK)					
L414 1-216-864-11 METAL CHIP 0 5% 1/16W L415 1-216-295-00 SHORT 0 R208 1-216-821-11 METAL CHIP 1 1/16W L601 1-216-864-11 METAL CHIP 0 5% 1/16W (E990/EJ915: E13, E33, HK, KR) L601 1-410-997-22 INDUCTOR CHIP 2.2uH (EJ915: AEP, UK, FR, G, EE, AUS, CH) (E002 1-414-760-21 FERRITE BEAD (EJ915: US, CND) L602 1-414-521-11 INDUCTOR CHIP 1 0uH (E990/EJ915: E13, E33, HK, KR) L603 1-216-864-11 METAL CHIP 220K 5% 1/16W (E990/EJ915: E13, E33, HK, KR) L603 1-216-864-11 METAL CHIP 220K 5% 1/16W (E990/EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) (E990/EJ915: E13, E33, HK, KR) L603 1-216-864-11 METAL CHIP 220K 5% 1/16W (E990/EJ915: US, CND, E13, E33, HK, KR) (EXCEPT EJ915: FR) L603 1-414-760-21 FERRITE BEAD (E990/EJ915: US, CND, E13, E33, HK, KR) (EXCEPT EJ915: FR) L603 1-414-760-21 FERRITE BEAD (E990/EJ915: US, CND, E13, E33, HK, KR) (EXCEPT EJ915: FR) L603 1-414-760-21 FERRITE BEAD (E900/EJ915: US, CND, E13, E33, HK, KR) (EXCEPT EJ915: FR) L603 1-414-760-21 FERRITE BEAD (E900/EJ915: US, CND, E13, E33, HK, KR) (EXCEPT EJ915: FR) L603 1-414-760-21 FERRITE BEAD	L413	1-414-760-21		VIIC CIIV					
L415 1-216-295-00 SHORT 0	1.44.4	1 010 004 11			K207	1-210-840-11	METAL CHIP	100K 5%	1/1000
L601 1-216-864-11 METAL CHIP 0 5% 1/16W (E990/EJ915: E13, E33, HK, KR) (E990/EJ915: E13, E33, HK, KR) L601 1-410-997-22 INDUCTOR CHIP 2.2uH (EJ915: AEP, UK, FR, G, EE, AUS, CH) L601 1-414-760-21 FERRITE BEAD (EJ915: US, CND) L602 1-414-760-21 FERRITE BEAD (EJ915: US, CND) L602 1-414-521-11 INDUCTOR CHIP 10uH (E990/EJ915: E13, E33, HK, KR) L603 1-216-864-11 METAL CHIP 0 5% 1/16W (E990/EJ915: US, CND, E13, E33, HK, KR) L603 1-414-760-21 FERRITE BEAD (E990/EJ915: US, CND, E13, E33, HK, KR) L603 1-414-760-21 FERRITE BEAD (E990/EJ915: US, CND, E13, E33, HK, KR) L603 1-414-760-21 FERRITE BEAD (E990/EJ915: US, CND, E13, E33, HK, KR) L603 1-414-760-21 FERRITE BEAD (E990/EJ915: US, CND, E13, E33, HK, KR) L603 1-414-760-21 FERRITE BEAD (E990/EJ915: US, CND, E13, E33, HK, KR) L603 1-414-760-21 FERRITE BEAD (E990/EJ915: US, CND, E13, E33, HK, KR) L604 1-416-845-11 METAL CHIP 100K 5% 1/16W (EJ915: FR) L605 1-414-760-21 FERRITE BEAD (EJ915: US, CND, E13, E33, HK, KR) L606 1-414-760-21 FERRITE BEAD (EJ915: US, CND, E13, E33, HK, KR) L607 1-414-760-21 FERRITE BEAD (EJ915: US, CND, E13, E33, HK, KR) L608 1-216-845-11 METAL CHIP 100K 5% 1/16W (EJ915: FR)				1/1000	DOOG	1 010 001 11	METAL CLUD	11/ 50/	4 /4 CW/
(E990/EJ915: E13, E33, HK, KR) L601 1-410-997-22 INDUCTOR CHIP 2.2uH (EJ915: AEP, UK, FR, G, EE, AUS, CH) L601 1-414-760-21 FERRITE BEAD (EJ915: US, CND) L602 1-414-760-21 FERRITE BEAD (EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) L602 1-414-521-11 INDUCTOR CHIP 10uH (E990/EJ915: E13, E33, HK, KR) L603 1-216-864-11 METAL CHIP 0 5% 1/16W (E990/EJ915: US, CND, E13, E33, HK, KR) L603 1-414-760-21 FERRITE BEAD (E990/EJ915: US, CND, E13, E33, HK, KR) L603 1-414-760-21 FERRITE BEAD (E990/EJ915: US, CND, E13, E33, HK, KR) R801 1-216-849-11 METAL CHIP 330K 5% 1/16W (EJ915: FR) R802 1-216-849-11 METAL CHIP 220K 5% 1/16W (EJ915: FR) R802 1-216-851-11 METAL CHIP 330K 5% 1/16W (EJ915: FR) R803 1-216-851-11 METAL CHIP 330K 5% 1/16W (EJ915: FR) R804 1-216-851-11 METAL CHIP 220K 5% 1/16W (EJ915: FR) R805 1-216-851-11 METAL CHIP 330K 5% 1/16W (EJ915: FR) R806 1-216-849-11 METAL CHIP 330K 5% 1/16W (EJ915: FR) R807 1-216-851-11 METAL CHIP 330K 5% 1/16W (EJ915: FR)				1/16\M					
R262 1-216-821-11 METAL CHIP 1K 5% 1/16W R301 1-216-849-11 METAL CHIP 220K 5% 1/16W (EJ915: FR) (EJ915: FR) (EJ915: FR) (EJ915: FR) (EJ915: US, CND) (EJ915: US, CND) (EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) (EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) (EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) (EJ915: E13, E33, HK, KR) (EJ915: FR) (EJP15: FR) (EJP	LOUI	1-210-804-11							
L601 1-410-997-22 INDUCTOR CHIP 2.2uH			(E990/EJ915: E13, E33,	ΠK, KK)					
(EJ915: AEP, UK, FR, G, EE, AUS, CH) L601 1-414-760-21 FERRITE BEAD (EJ915: US, CND) L602 1-414-760-21 FERRITE BEAD (EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) L602 1-414-521-11 INDUCTOR CHIP 10uH (E990/EJ915: E13, E33, HK, KR) L603 1-216-864-11 METAL CHIP 0 5% 1/16W (E990/EJ915: US, CND, E13, E33, HK, KR) L603 1-414-760-21 FERRITE BEAD (EJ915: FR) (EXCEPT EJ915: FR) (EJ915: FR) (EJ915: FR) (EJ915: FR) (EXCEPT EJ915: FR) (EJ915: FR) (EXCEPT EJ915: FR) (EJ915: FR) (EJ915: FR) (EJ915: FR) (EXCEPT EJ915: FR) (EJ915: F	1.001	1 410 007 00	INDUCTOR CUID O OII						
L601 1-414-760-21 FERRITE BEAD (EJ915: US, CND) L602 1-414-760-21 FERRITE BEAD (EJ915: US, CND) (EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) L602 1-414-521-11 INDUCTOR CHIP 10uH (E990/EJ915: E13, E33, HK, KR) L603 1-216-864-11 METAL CHIP 0 5% 1/16W (E990/EJ915: US, CND, E13, E33, HK, KR) L603 1-414-760-21 FERRITE BEAD (E301 1-216-851-11 METAL CHIP 330K 5% 1/16W (E301 1-216-849-11 METAL CHIP 330K 5% 1/16W (EJ915: FR) R302 1-216-851-11 METAL CHIP 330K 5% 1/16W (EXCEPT EJ915: FR) R303 1-218-871-11 METAL CHIP 10K 0.5% 1/16W	LOUI	1-410-997-22		VIIC OII)	RSUI	1-210-849-11	METAL CHIP	22UK 5%	
L602 1-414-760-21 FERRITE BEAD (EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) L602 1-414-521-11 INDUCTOR CHIP 10uH (E990/EJ915: E13, E33, HK, KR) L603 1-216-864-11 METAL CHIP 0 5% 1/16W (E990/EJ915: US, CND, E13, E33, HK, KR) L603 1-414-760-21 FERRITE BEAD R303 1-218-871-11 METAL CHIP 330K 5% 1/16W (EXCEPT EJ915: FR) L603 1-414-760-21 FERRITE BEAD R303 1-218-871-11 METAL CHIP 10K 0.5% 1/16W	1.004	1 414 700 01		4U5, UH)					(EJ915; FK)
(EJ915: US, CND, AEP, UK, FR, G, EE, AUS, CH) L602 1-414-521-11 INDUCTOR CHIP 10uH (E990/EJ915: E13, E33, HK, KR) L603 1-216-864-11 METAL CHIP 0 5% 1/16W (E990/EJ915: US, CND, E13, E33, HK, KR) L603 1-414-760-21 FERRITE BEAD (EXCEPT EJ915: FR) R302 1-216-849-11 METAL CHIP 220K 5% 1/16W (EJ915: FR) R302 1-216-851-11 METAL CHIP 330K 5% 1/16W (EXCEPT EJ915: FR) R303 1-218-871-11 METAL CHIP 10K 0.5% 1/16W					D004	1 010 051 11	METAL OLUD	0001/ 50/	4/4/01/4
L602 1-414-521-11 INDUCTOR CHIP 10uH (E990/EJ915: E13, E33, HK, KR) L603 1-216-864-11 METAL CHIP 0 5% 1/16W (E990/EJ915: US, CND, E13, E33, HK, KR) L603 1-414-760-21 FERRITE BEAD R302 1-216-849-11 METAL CHIP 220K 5% 1/16W (EJ915: FR) R302 1-216-851-11 METAL CHIP 330K 5% 1/16W (EXCEPT EJ915: FR) R303 1-218-871-11 METAL CHIP 10K 0.5% 1/16W	L602	1-414-760-21		VIIO (011)	R301	1-216-851-11	METAL CHIP		
(E990/EJ915: E13, E33, HK, KR) L603 1-216-864-11 METAL CHIP 0 5% 1/16W (E990/EJ915: US, CND, E13, E33, HK, KR) L603 1-414-760-21 FERRITE BEAD (E990/EJ915: E13, E33, HK, KR) (EJ915: FR) R302 1-216-851-11 METAL CHIP 330K 5% 1/16W (EXCEPT EJ915: FR) R303 1-218-871-11 METAL CHIP 10K 0.5% 1/16W	1.000	1 414 501 11		4U5, CH)	DOGG	1 010 040 11	METAL OLUB	•	
L603 1-216-864-11 METAL CHIP 0 5% 1/16W R302 1-216-851-11 METAL CHIP 330K 5% 1/16W (E990/EJ915: US, CND, E13, E33, HK, KR) (EXCEPT EJ915: FR) L603 1-414-760-21 FERRITE BEAD R303 1-218-871-11 METAL CHIP 10K 0.5% 1/16W	L602	1-414-521-11		HIN INDV	K302	1-210-849-11	IVIETAL CHIP	22UK 5%	
(EXCEPT EJ915: FR) L603 1-414-760-21 FERRITE BEAD R303 1-218-871-11 METAL CHIP 10K 0.5% 1/16W	1.000	1 010 004 44	· ·		Dago	1 010 054 44	METAL CLUB	2201/ 52/	
L603 1-414-760-21 FERRÌTE BEAD R303 1-218-871-11 METAL CHIP 10K 0.5% 1/16W	L603	1-210-864-11			K302	1-210-851-11	IVIETAL CHIP		
	1.000	1 414 700 01		пк, кк)	Daga	1 010 074 44	METAL CLUB	,	,
(EJ910. AEF, UN, FR, G, EE, AUS, UN) NSU4 1-210-821-11 METAL UNIF 1K 5% 1/16W	LOUJ	1-414-700-21		VIIC CITY					
			(EUSID. AEF, UK, FK, G, EE, F	100, UN)	nou4	1-210-021-11	WEIAL UNIP	ın 5%	1/1000

Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>
R305	1-216-821-11	METAL CHIP	1K	5%	1/16W	R466	1-216-857-11	METAL CHIP	1M	5%	1/16W
R308	1-216-807-11		68	5%	1/16W	R467	1-216-821-11		1K	5%	1/16W
						N407	1-210-021-11	WETAL UNIP	IN	370	1/1000
R401	1-216-853-11		470K	5%	1/16W						
R402	1-216-841-11		47K	5%	1/16W	R469	1-216-853-11		470K	5%	1/16W
R403	1-218-903-11	METAL CHIP	220K	0.5%	1/16W	R470	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
						R471	1-216-841-11	METAL CHIP	47K	5%	1/16W
R404	1-218-888-11	METAL CHIP	51K	0.5%	1/16W	R474	1-218-879-11	METAL CHIP	22K	0.5%	1/16W
R405	1-218-887-11		47K	0.5%	1/16W	R475	1-216-821-11	MFTAL CHIP	1K	5%	1/16W
R406	1-218-889-11		56K	0.5%	1/16W					0,0	.,
R407	1-216-839-11		33K	5%	1/16W	R476	1-216-851-11	METAL CHIP	330K	5%	1/16W
R408	1-216-841-11	METAL CHIP	47K	5%	1/16W	R477	1-216-845-11		100K	5%	1/16W
						R478	1-216-864-11		0	5%	1/16W
R409	1-216-833-11	,	10K	5%	1/16W	R479	1-216-841-11		47K	5%	1/16W
R410	1-216-833-11	RES, CHIP	10K	5%	1/16W	R601	1-216-833-11	RES, CHIP	10K	5%	1/16W
R411	1-216-847-11	METAL CHIP	150K	5%	1/16W						
R412	1-216-839-11	METAL CHIP	33K	5%	1/16W	R602	1-216-833-11	RES. CHIP	10K	5%	1/16W
R414	1-218-917-11		820K	0.5%	1/16W	R603	1-216-839-11	,	33K	5%	1/16W
	1 210 017 11	WEINE OITH	OZOIX	0.0 /0	17 1000	R605	1-216-864-11		0	5%	1/16W
D 41 E	1 010 005 11	METAL CLUD	0.01/	E 0/	1/1CM		1-216-851-11				
R415	1-216-825-11		2.2K	5%	1/16W	R606			330K	5%	1/16W
R416	1-216-833-11	*	10K	5%	1/16W	R607	1-216-857-11	METAL CHIP	1M	5%	1/16W
R417	1-216-811-11	METAL CHIP	150	5%	1/16W						
R418	1-216-304-11	METAL CHIP	3.3	5%	1/10W	R608	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R419	1-216-298-00	METAL CHIP	2.2	5%	1/10W	R609	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
						R610	1-216-833-11	RES. CHIP	10K	5%	1/16W
R420	1-216-298-00	METAL CHIP	2.2	5%	1/10W	R611	1-216-845-11	,	100K	5%	1/16W
R421	1-216-845-11		100K	5%	1/16W	R612	1-216-833-11		10K	5%	1/16W
	1-216-845-11		100K		1/16W	11012	1-210-000-11	ILO, OIIII	1010	J /0	1/1000
R422				5%		DC40	1 010 004 11	METAL OLUD	•	F0/	4/4/01/4
R423	1-216-857-11		1M	5%	1/16W	R613	1-216-864-11		0	5%	1/16W
R424	1-216-837-11	METAL CHIP	22K	5%	1/16W	R614	1-216-841-11		47K	5%	1/16W
						R615	1-216-837-11	METAL CHIP	22K	5%	1/16W
R426	1-216-861-11	METAL CHIP	2.2M	5%	1/16W	R616	1-216-845-11	METAL CHIP	100K	5%	1/16W
R427	1-216-837-11	METAL CHIP	22K	5%	1/16W	R617	1-216-837-11	METAL CHIP	22K	5%	1/16W
R428	1-216-833-11	RES. CHIP	10K	5%	1/16W						
R429	1-216-864-11	,	0	5%	1/16W	R618	1-216-845-11	METAL CHIP	100K	5%	1/16W
R430	1-216-841-11		47K	5%	1/16W	R619	1-216-837-11		22K	5%	1/16W
N430	1-210-041-11	WE TAL CHIP	47 K	J /0	1/1000						
D 400	4 040 000 44	METAL OLUB	0014	5 0/	4 /4 0 14	R621	1-216-837-11		22K	5%	1/16W
R433	1-216-839-11		33K	5%	1/16W	R623	1-216-837-11		22K	5%	1/16W
R434	1-216-864-11		0	5%	1/16W	R624	1-216-845-11	METAL CHIP	100K	5%	1/16W
R436	1-216-864-11	METAL CHIP	0	5%	1/16W						
R438	1-216-864-11	METAL CHIP	0	5%	1/16W	R625	1-216-864-11	METAL CHIP	0	5%	1/16W
R439	1-216-864-11	METAL CHIP	0	5%	1/16W	R626	1-216-864-11	METAL CHIP	0	5%	1/16W
						R627	1-216-819-11	MFTAL CHIP	680	5%	1/16W
R440	1-216-864-11	METAL CHIP	0	5%	1/16W	R628	1-216-819-11		680	5%	1/16W
R441	1-216-864-11		0	5%	1/16W	R629	1-216-819-11		680	5%	1/16W
						11029	1-210-013-11	WILTAL OTHE	000	J /0	1/1000
R442	1-216-845-11		100K	5%	1/16W	Door	1 010 005 11	METAL OLUB	47	F0/	4 (4 0) 14
R443	1-216-833-11		10K	5%	1/16W	R630	1-216-805-11		47	5%	1/16W
R444	1-216-861-11	METAL CHIP	2.2M	5%	1/16W	R631	1-216-845-11		100K	5%	1/16W
						R632	1-216-845-11	METAL CHIP	100K	5%	1/16W
R445	1-216-864-11	METAL CHIP	0	5%	1/16W	R633	1-216-819-11	METAL CHIP	680	5%	1/16W
R446	1-218-887-11	METAL CHIP	47K	0.5%	1/16W	R634	1-216-864-11	METAL CHIP	0	5%	1/16W
R447	1-218-879-11		22K	0.5%	1/16W						
R448		METAL CHIP	0	5%	1/16W	R635	1-216-807-11	METAL CHIP	68	5%	1/16W
R449	1-216-809-11		100	5%	1/16W	R636	1-216-821-11		1K	5%	1/16W
11443	1-210-009-11	WIL TAL OTTE	100	J /0	1/1000		1-216-864-11				
D.450	4 040 045 44	METAL OLUB	40014	5 0/	4 /4 0 14	R637			0	5%	1/16W
R450	1-216-845-11		100K	5%	1/16W	R801	1-216-845-11		100K	5%	1/16W
R451	1-216-829-11		4.7K	5%	1/16W	R802	1-216-833-11	RES, CHIP	10K	5%	1/16W
R452	1-216-829-11		4.7K	5%	1/16W						
R453	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R804	1-216-809-11	METAL CHIP	100	5%	1/16W
R454	1-216-829-11		4.7K	5%	1/16W	R805	1-216-845-11		100K	5%	1/16W
* *						R806	1-216-864-11		0	5%	1/16W
R455	1-216-853-11	METAL CHIP	470K	5%	1/16W	R807	1-216-845-11		100K	5%	1/16W
	1-218-883-11					R808					
R457			33K	0.5%	1/16W	LIND	1-216-845-11	IVICIAL UNIP	100K	5%	1/16W
R458	1-218-871-11		10K	0.5%	1/16W		4.040.000				4 /
R459	1-216-809-11		100	5%	1/16W	R809	1-216-821-11		1K	5%	1/16W
R460	1-216-845-11	METAL CHIP	100K	5%	1/16W	R810	1-216-833-11		10K	5%	1/16W
						R811	1-216-837-11	METAL CHIP	22K	5%	1/16W
R461	1-216-841-11	METAL CHIP	47K	5%	1/16W						EJ915: FR)
R464	1-216-833-11		10K	5%	1/16W	R811	1-216-843-11	METAL CHIP	68K	` 5%	1/16W
R465	1-216-841-11		47K	5%	1/16W						(EJ915: FR)
				3 / 0	., 10 **					,	(=00.0.111)

Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
R813	1-216-833-11	RES, CHIP	10K	5%	1/16W			MISCELLANEOUS ************	
R814	1-216-833-11	RES. CHIP	10K	5%	1/16W				
R815	1-216-864-11	,	0	5%	1/16W	101 △ 101	X-3378-495-1	OPTICAL PICK-UP (DAX-2	22EG)
R816	1-216-864-11	METAL CHIP	0	5%	1/16W			,	(US, CND, AEP, UK)
		(EJ915:	US, CND,	AEP, UK,	FR, G, EE)	101 △ 101	X-4952-079-1	OPTICAL PICK-UP (DAX-2	•
R817	1-216-864-11	METAL CHIP	0	5%	1/16W				PT US, CND, AEP, UK)
R818	1-216-823-11	METAL CHIP	1.5K	5%	1/16W	M901		MOTOR BLOCK ASSY, SL	
						M902		CHASSIS ASSY (SPINDLE	/
R819	1-216-864-11		0	5%	1/16W	*****	******	*********	*******
R820	1-216-864-11		0	5%	1/16W				
R821	1-216-864-11		0	5%	1/16W			& PACKING MATERIALS	
R822	1-216-864-11		0	5%	1/16W		*********	*******	
R823	1-216-825-11	METAL CHIP	2.2K	5%	1/16W				
D004	1 010 001 11	METAL OLUB	0	F0/	4 (4 0) 14	_		REMOTE CONTROL UNIT) (E104E A110)
R824	1-216-864-11		0	5%	1/16W	<u> </u>		ADAPTOR, AC (AC-E455A	, ,
R825	1-216-849-11		220K	5%	1/16W	<u> </u>		ADAPTOR, AC (AC-E455)	' '
R826	1-216-864-11	-	0	5%	1/16W	A		ADAPTOR, AC (AC-E455A	
R827	1-216-857-11		1M	5%	1/16W	A	1-473-115-11	ADAPTOR, AC (AC-E455D	ı) (EJ915: UK)
R828	1-216-825-11	METAL CHIP	2.2K	5%	1/16W				
							1-473-116-35	ADAPTOR, AC (AC-E455D	
R829	1-216-829-11	METAL CHIP	4.7K	5%	1/16W			(EJ915	5: AEP, E13, FR, G, EE)
R830	1-216-843-11	METAL CHIP	68K	5%	1/16W	<u> </u>	1-475-622-11	ADAPTOR, AC (AC-E455)	(EJ915: CH)
R831	1-216-864-11	METAL CHIP	0	5%	1/16W	<u> </u>	1-475-623-11	ADAPTOR, AC (AC-E455)	(EJ915: HK)
R832	1-216-841-11	METAL CHIP	47K	5%	1/16W	<u> </u>	1-569-007-11	ADAPTOR, CONVERSION	2P
R833	1-216-841-11	METAL CHIP	47K	5%	1/16W				(EJ915: E33/E990)
							1-756-008-11	CASE, BATTERY	
R834	1-216-821-11	METAL CHIP	1K	5%	1/16W				
R835	1-216-864-11	METAL CHIP	0	5%	1/16W		1-756-036-11	BATTERY, NICKEL HYDRO	GEN (NH-14WM)
R836	1-216-864-11	METAL CHIP	0	5%	1/16W		3-008-521-01	CASE, BATTERY CHARGE	
R837	1-216-864-11	METAL CHIP	0	5%	1/16W		3-044-132-01	CASE, CARRYING (EJ915	: US)
R851	1-218-871-11	METAL CHIP	10K	0.5%	1/16W			MANUAL, INSTRUCTION	
									(ENGLISH)
R857	1-216-845-11	METAL CHIP	100K	5%	1/16W		3-045-458-11	MANUAL, INSTRUCTION	'
				(EJ915: FR)				(SPANISH)
		< SWITCH >					3-045-458-21	MANUAL, INSTRUCTION	
								(EJ915: CND, AEP, UK,	FR, G, EE) (ENGLISH)
S801		SWITCH, PUSH (PEN)			3-045-458-31	MANUAL, INSTRUCTION	(
S802		SWITCH, TACTILE							D, AEP, FR) (FRENCH)
S803		SWITCH, SLIDE (3-045-458-41	MANUAL, INSTRUCTION	•
S804		SWITCH, SLIDE ((DUTCH)
S805	1-771-248-11	SWITCH, TACTILE	E (I◀◀)				3-045-458-51	MANUAL, INSTRUCTION	
			- /						(SWEDISH)
S806		SWITCH, TACTILE					3-045-458-61	MANUAL, INSTRUCTION	
S807		SWITCH, TACTILE							(PORTUGUESE)
S808		SWITCH, TACTILE							/= .a
S809	1-771-248-11	SWITCH, TACTILE	E (VULUIV	E –)			3-045-458-71	MANUAL, INSTRUCTION	. ,
		VADICTOR					0.045.450.04	MANULAL INCTRUCTION	(GERMAN)
		< VARISTOR >					3-045-458-81	MANUAL, INSTRUCTION	
VDD101	1 001 000 11	VADICTOD CHID					2 045 450 01	MANUAL, INSTRUCTION	(ITALIAN)
		VARISTOR, CHIP					3-045-458-91	MANUAL, INSTRUCTION	,
		VARISTOR, CHIP					0.045.504.44	MANULAL INICEDITATION	(FINNISH)
		VARISTOR, CHIP VARISTOR, CHIP					3-045-564-11	MANUAL, INSTRUCTION	
		,					2 067 720 01	MANUAL INCTRUCTION	(KOREAN)
VDR301	1-001-923-11	VARISTOR, CHIP					3-007-730-01	MANUAL, INSTRUCTION	` '
MDD303	1 001 000 11	VARISTOR, CHIP						(JAPAINESE, ENGLISE	H, CHINESE, KOREAN)
		VARISTOR, CHIP					2 067 720 11	MANUAL, INSTRUCTION	
VDNSUS	1-001-002-11	VANISTON, UTIL					3-007-730-11		E22/E000\ /CDANICU\
		∠ VIDDATOD S					2 067 720 21		E33/E990) (SPANISH)
		< VIBRATOR >					3-001-138-21	MANUAL, INSTRUCTION	, , ,
VCO4	1-767 605 11	VIDDATOD LITU		ΛΙ ΛΤΕ /4 <i>!</i>	S OMITA)			AEP, UK, E33,	FR, G, EE, AUS/E990)
X601		VIBRATOR, LITHI ******		,	,		2-867 700 04	MANIJAI INICTOLICTION	(ENGLISH)
******	······································	······································					3-001-138-31	MANUAL, INSTRUCTION) IIK/EOOO/ (EDENIOU/
							2 067 700 11		P, UK/E990) (FRENCH)
							J-00/-/J9-11	MANUAL, INSTRUCTION	
							3-867-720-91	MANUAL, INSTRUCTION	(CHINESE)
							J-UUI-138 - Z1	WIGHTONE, INSTRUCTION	(ENGLISH)
						'			(LINGLISH)

 $-36- \begin{tabular}{ll} The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified. \\ \end{tabular}$

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

Ref. No.	Part No.	Description	<u>Remark</u>
	3-867-739-31	MANUAL, INSTRUCTION (EJ915: CH) (CHINESE)
	3-867-740-11	MANUAL, INSTRUCTION (EJ915: EE)	` ,
	3-867-740-21 3-867-740-31	MANUAL, INSTRUCTION (EJ915: EE) MANUAL, INSTRUCTION (EJ915: EE)	(CZECK)
	3-867-740-41	(HU MANUAL, INSTRUCTION (EJ915: EE)	NGARIAN) (POLISH)
	3-867-740-51	MANUAL, INSTRUCTION (EJ915: EE)	OVAKIAN)
	3-867-740-61	MANUAL, INSTRUCTION (EJ915: KR	,
	4-223-953-01	CASE (MIS), CARRYING (EJ915: CNI UK, E13, E33, FR, G, EE, HK, KR	Ò, AEP,
	8-953-276-90 8-953-304-90	HEADPHONE MDR-24SP (EJ915: US RECEIVER MDR-E805SP (EJ915: CN AEP, UK, E13, E33, FR, G, EE, H) D,

D-E990/EJ915